



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

AAET

Which electronic component does this graphical symbol represent?

**A** Transistor

AAJT

What symptom would you think shows that the freon filter drier has become blocked?

**A** A large temperature drop across the drier.

AALB

In open sea where it is allowed to do water washing of cargo tanks, how much oil is the ship allowed to pump overboard to fulfil the regulations in force(IMO)?

**A** 30 litres pr. nautical mile.

AAQB

A section of seawater pipe has been removed for maintenance. When refitting the pipe after completing the work the bolt holes in the flanges are found to be misaligned. What procedure should be followed to finish the work?

**A** Adjacent pipework should be slackened off to allow the pipe to be aligned. Any incorrectly positioned brackets should be adjusted after the pipe is refitted.

AAWE

\*Which one of the following items has to be included in an abandon ship drill?

**A** lowering of at least one lifeboat after any necessary preparation for launching

ABAF

What is the status and function of a Panama canal pilot?

**A** He has control of the navigation and movement of the vessel

ABAM

Reduced capacity accompanied by vibration and noise at the suction of a centrifugal pump results from the action of vapor pockets in the fluid being pumped caused by:

**A** Cavitation

ABBG

Diodes are widely used in rectification, or the conversion of alternating current to direct current. The sinusoidal input voltage  $V_{in}$  is applied to the circuit shown. Which of the output voltages is correct ?

**A** Figure 1

ABBG

Diodes are widely used in rectification, or the conversion of alternating current to direct current. This circuit symbol is such example. The input voltage  $V_{in}$  is sine-wave AC. Which of the shown output voltages is correct for this circuit?

**A** Figure 1

ABDQ

Indicate the correct name for the tool on the sketch:

**A** Water Pump Pliers

ABEN

A rocket parachute flare reaches an altitude of

**A** not less than 180m



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- ABFC** You are in an area of restricted visibility and hear this signal. It is repeated at two minute intervals. What does it indicate?
- A** One long blast followed by two short blasts at intervals of not more than 2 min
- 
- ABHV** On the figure 4 possible definitions of the term "FORWARD BREAST LINE" are given. Which one is the correct one?
- A** Forward breast line is given by C on the figure
- 
- ABKJ** Between a complete removal and a renewing of floor polish what can you do to maintain a PVC floor surface?
- A** By soft machine scrubbing with red pad and a renewing of polish only where there is heavy traffic (f.i. in the middle of corridors and not the whole floor).
- 
- ABLH** Is the master under obligation to do a maritime inquiry if a crewmember suffered a considerably injury onboard and died after a week on a hospital ashore?
- A** Yes, even if he/ she did not die while onboard.
- 
- ABPJ** Who shall carry out the detailed preliminary supervision of maritime service of seafarers before the commencement of service?
- A** The employer/master.
- 
- ACAJ** \*Give the meaning of the following symbol
- A** Secure hatches
- 
- ACBX** Why shall a duly qualified officer supervise any potential polluting operation?
- A** To avoid pollution.
- 
- ACGC** What is important to check when transferring a position from GPS to a chart?
- A** Ensure that the chart and the GPS use same datum
- 
- ACGC** What is important to check when transferring a position from the GPS output to a paper chart?
- A** Ensure that the chart and the GPS use same datum
- 
- ACKJ** Which of the following names is given to the basic types of foam as far as they are differentiated according to the way bubbles are obtained:
- A** Chemical foams
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ACMU

What is meant by the atmosphere in a cargo tank being "too rich" or "too lean"?

**A** Atmosphere is not combustible in either situation.

ACPG

How does low expansion foam act as an extinguishing agent when dealing with oil fires?

**A** By smothering and also by providing some cooling

ACXK

A lifebuoy light is capable of working at minimum for a period of, and has a luminous intensity of:

**A** 2 h, 2 candelas (about 1,7 mile range at normal meteorological sight)

ACYL

What should be carried out before entering the pump room?

**A** Notify the Chief Officer or officer on duty and run the ventilation for at least 15min

ACYL

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ADLS

Other than the official log book what other publications must be carried on board a vessel

**A** Charts, nautical publications, GMDSS log, Oil Record book(s)

ADNN

\*Which of the following spaces may be protected by a fixed carbon dioxide (CO<sub>2</sub>) fire-extinguishing system?

**A** Machinery spaces of category A

ADTB

Why did they order another tug?

**A** Because they wanted to make sure that the ship could be turned safely.

ADVC

Can a British Consular official detain a vessel whilst in a foreign port?

**A** Yes - any consular official can detain a vessel

AECJ

A drip tray containing oil is on fire. The only fire fighting equipment available is water hose with spray jet/spray nozzle. How, if at all, should you attempt to put out this fire using water?

**A** The water can be applied in a fine spray starting from the front in a sweeping motion.

AECL

What is the correct chemical name for Caustic Soda in liquid form?

**A** Sodium Hydroxide Solution



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AEFB

The death of a passenger occurs on board, what legal actions must be taken by the Master?

- A** First aspect confirm death. Notify company, and next-of-kin, and if on board to be advised and comforted as may be required. Arrange to have body moved to freezer area. Notify local agents and British Consul when abroad. Entry to be made in Record of Birth

AEKV

\*At least how often shall rescue boats be launched with their assigned crew and manoeuvred in the water?

- A** Every three months

AEMQ

What colour flare is used to signal a highly dangerous landing place ?

- A** Red

AENE

Feed check valves for main and auxiliary purposes are normally of the double shut off type, as shown in the diagram. What is the main function of the non-return valve?

- A** To prevent the steam and water in the boiler from discharging out by the feed line, if a feed line fracture or a joint in the line blows.

AEOG

What is the purpose of the unscheduled inspections on board ships?

- A** To determine whether the ship is seaworthy

AEPT

If you use chemicals for cleaning up an oil-spill on the water, what would the chemicals do?

- A** Disperse or dissolve the oil into the water

AEPV

You are on a vessel 10 nautical miles off the coast of Nigeria, West Africa. Are you allowed to dump empty glass bottles overboard ?

- A** Yes, the bottles can be dumped if they are ground so that the resulting particles can pass through a screen with 25 mm openings

AFCL

You are inerting a cargo tank on an oil tanker, prior to gas-freeing for entry and inspection. What is the maximum oxygen content permitted in the inert gas main during this operation, as required by SOLAS 1974?

- A** 5% by volume.

AFCL

You are inerting a cargo tank on an oil tanker, prior to gas-freeing for entry. What is the maximum oxygen content permitted in the inert gas main during this operation, as required by SOLAS 1974?

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AFRF

On board a DSC-call is to be made in case of an OBS. Choose the category:

- A** routine



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AFTY

To make a "call-request" one should:

- A** select the telex in on-line position

AFVO

High Voltage (HV) cables are smaller than low voltage cables for a given power rating. Why is this?

- A** The HV cable carries a smaller current and therefore requires less copper.

AFYY

What is polymerisation?

- A** When unsaturated chemical compounds are heated under pressure, the molecules react with each other and form large molecules.

AGCH

What is the correct name of the tool shown in the sketch?

- A** Flat file

AGEC

When is a tank Gas free ?

- A** A tank is only to be considered as gas free when no traces of flammable and/or poisonous gas are measured and in addition O<sub>2</sub> content is measured to be 21 %.

AGGL

In which way may intake of poisonous material occur?

- A** All mentioned.

AGGM

On the figure 4 possible definitions of the term "FAIRLEAD" are given. Which one is the correct one?

- A** Fairlead is given by C on the figure

AGLK

Falls used in launching shall be turned end for end at an interval of not more than X months and to be renewed not later than every Y years, where the intervals are:

- A** 30 months / 5 years

AGRJ

Having a CO<sub>2</sub> alarm during normal working hours, what immediate action should be taken?

- A** Get out of the engine room as soon as possible.

AGXI

What would be the main effect on a refrigeration system of insufficient cooling water flow through the condenser?

- A** High delivery pressure

AGXI

What would be the main effect on a refrigeration system of insufficient cooling water flow through the condenser?

- A** Increased delivery pressure



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- AGYC** Which term is used to refer to the quantity of heat required to raise the temperature of one kilogram of any particular substance by one degree Celsius?
- A** Specific heat
- 
- AGYC** Which term is used to refer to the quantity of heat required to raise the temperature of one kilogram of any particular substance by one degree Celsius?
- A** Specific heat or specific heat capacity.
- 
- AHCF** Which of the following features is required for an anti-exposure suit ?
- A** does not sustain burning or continue melting after being totally enveloped in a fire for a period of 2seconds
- 
- AHJ** VHF CH 70 ALL SHIP DISTRESS 2275200 DISTRESS RELAY 227990850 FIRE N 50 00 W 000 10 11:10 EOS What is false regarding the above call ?
- A** This call will normally be followed by a DSC acknowledgment call
- 
- AHGM** What is EPIRB an abbreviation for?
- A** Emergency Position Indicating Radio Beacon.
- 
- AHIC** The following DSC was received At what time received? (27.05.1997 23:23 CALLED VHF CH70 FORMAT: DISTRESS DIST-ID: 367449000 N OF: UNDESG DISTRESS POSITION: N 52.43 E04.maj DIST-UTC: 00:00 TELECOM: G3E SIMP TEL EOS: EOS)
- A** 23:23
- 
- AHIF** How many lifebuoys can you expect to find on board a cargo ship of 190 metres in length including those of the quick-release system) ?
- A** at least 12 distributed on both sides of the ship
- 
- AHJU** What should you do if the temperature of Hydrogen Peroxide Solution 65 % carried is raising 2° C per 5 hours and the temperature is above 40° C ?
- A** To avoid uncontrolled decomposition the cargo should be discharged overboard.
- 
- AHTR** Does the Health & Safety Executive (HSE) have authority in dealing with shipping matters
- A** The HSE has authority only where an interface exists between the ship and shore e.g. means of access regs. In a serious case, they would contact the local Marine Officer
- 
- AHWA** Is it necessary to construct a passage plan, (or voyage plan), for transiting a canal or river, when under pilot?
- A** - A passage plan is always required, irrespective of the length of the \ voyage, or if the ship is under pilot
- 
- AHWA** Is it necessary to construct a passage plan, (or voyage plan), for transiting a canal or river, when under pilot?
- A** Vessels with bulbous bow, LPG- and LNG-vessels must provide their own projector



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- AHWE** On the figure 4 possible definitions of the term "PANAMA LEAD" are given. Which one is the correct one?
- A** Panama lead is given by C on the figure
- 
- AHWF** You are the Officer in Charge during the loading of a tanker at a terminal in the Persian Gulf. The deck watchman reports "There is a lot of oil on the water to starboard". What should be your FIRST action?
- A** Tell the jettyman to stop loading immediately.
- 
- AHXB** Sea area A4 is in maritime radio traffic a sea area:
- A** outside the sea areas A1, A2 and A3
- 
- AIGK** What is the main responsibility of a bridge lookout at night?
- A** Good eyesight and able to communicate with the OOW (officer on watch)
- 
- AIHG** From the statements given in the answer options, choose the one which is most accurate in relation to the operation of water-tube boiler and fire-tube boilers.
- A** Water-tube boilers are more efficient and contains less water. They suffer from major damages when run dry during operation.
- 
- AIHG** From the statements given in the answer options, choose the one which is most accurate in relation to the operation of water-tube boiler and fire-tube boilers.
- A** Water-tube boilers are more efficient and contains less water. They suffer from major damages when run dry during operation.
- 
- AIIW** What does wet washing mean?
- A** The bottom washing starts whilst there is still a small amount of cargo in the tank.
- 
- AINU** Which of the following items shall be included in an "abandon ship"-drill?
- A** Checking that passengers and crew are suitably dressed and lifejackets correctly donned
- 
- AINY** Which class of emission is used for FEC NBDP transmissions ?
- A** F1B
- 
- AIQE** You are crude oil washing tank 1C tank. The duty deck officer reports that the oxygen reading in the tank is 9%. What should you do ?
- A** Stop the washing process and not resume until the oxygen content in the tank is below 8%.
- 
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- A** Stop the washing process and not resume until the oxygen content in the tank is below 8%.



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- AISX** In a smoke filled alleyway where will the cleanest air be found, and how should you proceed out?
- A** Near to the deck, crawl out keeping your face as near to the deck as possible.
- 
- AISY** According to 33 CFR 156, oil tankers trading in US waters are required to test and document the testing of cargo transfer hoses and transfer pipe system. What is the minimum requirement when testing these components?
- A** Test pressure equal to 1.5 times the maximum allowable working pressure
- 
- AJWE** Which one of the listed requirements regarding fire protected lifeboats do not correspond to present regulations? Water spray systems shall:
- A** have separate draining pumps of sufficient capacity
- 
- AJWH** \*Give the meaning of the following symbol
- A** Start water-spray
- 
- AJXA** Which of the given options characterizes a 2-stroke diesel engine ?
- A** A 2 stroke engine completes a full cycle every revolution
- 
- AJXA** Which of the given options characterizes a 2-stroke diesel engine ?
- A** A 2 stroke engine has an ignition every time the piston reaches its top position.
- 
- AJBF** In which provision of the Act is the responsibility of the master for the observation of the provisions relating to supervision of maritime service stated?
- A** In Section 6 of the Act.
- 
- AJMX** What is the main vitamin found in flour and grain products?
- A** Vitamin B
- 
- AJSP** The frequency 121,5 MHz is used for :
- A** SART-COSPAS EPIRBS
- 
- AJUH** The battery of an EPIRB should be changed
- A** Every four years
- 
- AJWX** During duplex mode you are able to:
- A** interrupt





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

AJXS

By reduced transmitting power is meant in VHF a power between:

**A** 0,5 - 1 watt

AKAH

What is the most likely reason for vibration and noise at the suction side of a centrifugal pump when it is running?

**A** Cavitation

AKAH

What is the most likely reason for vibration and noise at the suction side of a centrifugal pump when it is running?

**A** Collapsing vapour bubbles due to cavitation.

AKAJ

If oil flows out of the bowl casing drain of a solids ejecting separator what is the most likely problem

**A** Insufficient amount of bowl closing water

AKFY

What could be the possible cause of an engine knocking?

**A** Any of the below

AKQA

On a general cargo ship, where would the fire hydrants be located ?

**A** At such locations that at least two jets not emanating from the same hydrant may reach any part of the ship normally accessible to the crew while the ship is being navigated, one of these jets coming from a single length of hose (the other jet may come from a connection of several lengths of hoses)

AKRP

When is it compulsory with emergency wires, fire wires?

**A** During loading/discharging of persistent/non persistent oil?

AKRT

A lifejacket is so constructed that a person can correctly don it within a period of:

**A** 1 min

AKRW

According to the rules of GMDSS vessels are equipped with certain radio-communication devices depending on:

**A** the sea areas

ALEN

What is the colour of the smoke signal used by life-saving stations or rescue units indicating that distress signals are observed in daylight?

**A** Orange

ALIJ

What effect would turbulent fluid flow through a heat exchanger have on the efficiency of the heat transfer?

**A** Yes.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- ALUC** If the general/fire alarm are sounding, and evacuation is required. What is the best way to ensure that all passengers are aware of the situation?
- A** Public announcement system to be used for informing. The cabin attendant should proceed to their cabin section, and search all cabins. If the area is inaccessible report to their superior.
- 
- AMAX** Which item among those below is included in the normal equipment of every lifeboat ?
- A** two efficient painters
- 
- AMDH** What do you call the plan on board dealing with the distribution of the crew and their duties at fire fighting?
- A** Alarm instruction
- 
- AMDJ** What is most important for the personnel on duty to supervise during a discharging operation including crude oil washing?
- A** Act according to the check list "during crude oil washing".
- 
- AMDV** Why do some diesel engine manufacturers recommend machining the valve spindle sealing surface with a half degree difference to the valve seat angle?
- A** To improve valve sealing by compensating for pressure and temperature effects on the
- 
- AMEG** Which class of emission is used for VHF DSC transmissions ?
- A** G2B
- 
- AMGW** Which documents shall the master submit to the consulate for supervision of maritime service of a Non-Norwegian rating?
- A** Employment agreement, report on seamen and documentation that the seafarer has the necessary qualifications, health certificate, record of service
- 
- AMGW** Which documents shall the master submit to the consulate for supervision of maritime service of, lets say, a Non- Norwegian rating?
- A** Employment agreement, report on seamen and documentation that the seafarer has the necessary qualifications, health certificate, record of service
- 
- AMHQ** What are the duties of the master regarding a sick or injured seafarer?
- A** He shall arrange for proper care within what he may find to be reasonable expenses
- 
- AMMR** How often is revalidation of Basic Training qualifications required under STCW
- A** Every 5 years
- 
- AMPX** It is important that the liquid level in the cargo tanks of a liquefied gas carrier is accurately monitored. The IMO Gas Codes identify level gauging systems as either indirect, closed non-penetrating, closed penetrating or restricted. What feature of the restricted type distinguishes it from the other types?
- A** In the cargo tanks we use either float or radar type gauge to control the liquid level



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

AMWO

What shall be done to assist a survival craft in keeping alongside own vessel?

- A** Stretch a painter from fore to aft

AMYI

The mandatory color of a hand flare is

- A** red

AMYI

The mandatory color of a hand flare is

- A** Red

ANBU

What is the prescribed time and place for a maritime inquiry after the occurrence?

- A** In the port where the occurrence took place/ first port of call after the occurrence took place - postponed only in exceptional cases and pursuant to provisions.

ANDG

\*Which one of the following items has to be included in an abandon ship drill?

- A** starting and operating the lifeboat engine

ANML

Zinc anodes are used on the seawater side of heat exchangers to:

- A** Protect against corrosion

ANMN

Between the sea water and fresh water systems there are blanked off connecting pipes. These connections can be used in cases of:

- A** Fresh water system failure

ANNG

Which electronic component is this graphical symbol illustrating:

- A** Capacitor

ANNG

Which electronic component is this graphical symbol illustrating?

- A** Capacitor

ANOY

How many rocket parachute flares are carried in each lifeboat?

- A** 4

ANQS

Which group of electrical services are likely to be supplied from an emergency generator?

- A** Steering gear and alarm system



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- ANQS** Which group of electrical services are likely to be supplied from an emergency generator?
- A** Steering gear and engine room alarm system
- 
- ANSH** In a Burmeister & Wain main engine, at what point is cylinder oil injected?
- A** As the piston passes "The Lubrication Points" in an upward direction.
- 
- ANSK** What is a characteristic of all centrifugal cargo pumps?
- A** Decreasing the speed of rotation will decrease the discharge pressure.
- 
- ANSM** When we are using a diode to convert AC to DC, it is usually referred to as a
- A** Rectifier
- 
- ANSM** When we are using a diode to convert AC to DC, it is usually referred to as which of the following?
- A** Rectifier
- 
- ANXC** When a fire breaks out in the engine room, who is in charge of the fire fighting operations?
- A** The Chief Engineer
- 
- AOBP** After complete shut down of the steam plant, the boiler have been heated in accordance to correct starting up procedure, and is now firing at working pressure. You are going to open the main steam valve to the system. What will be the correct procedure for this operation?
- A** Open steam valve very slowly, considering system expansion.
- 
- AOBR** What is the reason to too high pressure in the fuel oil separator oil outlet line?
- A** Valve in the outlet line partly closed.
- 
- AODG** You are the Officer on Watch on an oil tanker during a discharging operation. An alarm on the Inert gas Plant indicates that no inert gas is being supplied to replace the discharging cargo. What will you do?
- A** Immediately stop the discharging.
- 
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AOHG

How often should normal testing of the cooling water be done?

**A** Once a week.

AOHJ

What documentation must the Master inspect when signing on a new rating?

**A** The AB's Certificate (or equivalent), the seaman's discharge book, the medical certificate

AOJD

What is the ideal working temperature for physical work?

**A** 17 - 20° C

AOMD

Indicate the correct name for the part marked on the sketch:

**A** Piston rod

AOML

Which cell voltage is required to trickle charge a lead acid battery?

**A** 2.15 V

AOQQ

What does the abbreviation MRCC mean ?

**A** Maritime Rescue Coordinating Centre

AOWN

MMSI is short form of:

**A** Maritime Mobile Service Identity

AOYB

Which of the following information shall be specified by the muster list ?

**A** details of the general emergency alarm signal consisting of seven or more short blasts, followed by one long blast.

APAO

After closing the drain during the blowing procedure for a glass water gauge, the water cock is opened and the water flows to the top of the glass. Then the steam cock is opened and the water flows down and out of the glass; Which of the following statements are correct?

**A** The water level is between the water cock connection of the boiler, and the bottom of the gauge glass. It is safe to put feed water into the boiler.

APGH

What is the most important way to contain small oil-spills from cargo operations on the ship?

**A** Have all scuppers plugged

APGN

Tank top in engine room has a high quantity of oil residues floating around. When discovered, what action should be taken?

**A** Notify Ch.Eng., find cause of leakage, remedy the leakage and then immediately start cleaning of the tank top.



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APHL	The purpose of a bilge well is to :
A	Collect water/cargo to be pumped out
APKM	What are the Bosun and 2nd Mate going to do?
A	They are going to weigh the anchor
APKU	What is the safe time for operating the crankcase door when oil mist alarm is activated and the engine has been stopped?
A	After 20 minutes
APLT	You are starting to get low on water in the lifeboat. What should you do?
A	Collect rain water
APRH	SOLAS (The International Convention for the Safety of Life at Sea) regulations, Chapter 5, deals with the Safety of Navigation and applies to which vessels?
A	20 000 dwt
APRH	SOLAS (The International Convention for the Safety of Life at Sea) regulations, Chapter 5, deals with the Safety of Navigation and applies to which vessels?
A	- All vessels and on all voyages
AQAM	What quantity of reserve fuel is to be available for diesel driven fire pumps outside of the main machinery space? (SOLAS II-2/4.3.3.2.4)
A	Sufficient amount for fifteen hours operation at full capacity
AQBL	Signals are often used by aircraft engaged in search and rescue operations to direct ships towards a casualty. This aircraft flies across your stern, rocking his wings. What is the meaning of the signal?
A	The assistance of the vessel is no longer required
AQBN	The different layers in the ionosphere, important for radio propagation, are effected by:
A	the sun
AQCA	What is a mooring line?
A	A thick rope to tie up the ship.
AQCC	Where several rescue units are engaged in a search and rescue operation, one of them should be designated as the On-Scene Commander (OSC). Which of the following describes how this appointment will be made in MERSAR?
A	OSC to be designated by an appropriate RCC or RSC.



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- AQCC** Where several rescue units are engaged in a search and rescue operation, one of them should be designated as the On-Scene Commander (OSC). Which of the following describes how this appointment will be made in MERSAR?
- A** - The first rescue unit to arrive at the scene will normally assume the role of OSC, until the unit appointed as OSC by the SAR Mission Coordinator at the applicable RCC is in a position to take control.
- 
- AQCC** Where several rescue units are engaged in a search and rescue operation, one of will be designated as the On-Scene Commander (OSC). Which of the following describes how this appointment will be made?
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- 
- AQEO** Why is it important to know the PH value of a cleaning product?
- A** By soft machine scrubbing with red pad and a renewing of polish only where there is heavy traffic (f.i. in the middle of corridors and not the whole floor).
- 
- AQEY** What would be a typical set point for emergency shut down of a diesel engine due to "lubricating oil inlet to camshaft" low pressure?
- A** 1,5 Bar
- 
- AQEY** What would be a typical set point for emergency shut down of a large slow speed diesel engine due to "lubricating oil inlet to camshaft" low pressure?
- A** 1,5 Bar
- 
- AQHE** At the pre-cargo conference, the terminal loading master has indicated that a booster pump will be used to assist the discharging of a cargo of Caustic Soda solution, as the receiving tank is several kilometres away. You start the discharge, but after a few minutes, you observe the back pressure drops sharply.
- A** booster pump coming on the line and discharging properly
- 
- AQHE** At the pre-cargo conference, the terminal loading master has indicated that a booster pump will be used to assist the discharging operation, as the receiving tank is several kilometres away. You start the discharge, but after a few minutes, you observe the back pressure drops sharply. What is this an
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- A** booster pump coming on the line and discharging properly
- 
- AQSA** What kind of fire protection media is required when carrying Isopropylamine ?
- A** Foam that is not a "alcohol resistant" type and water spray.
- 
- ARAF** How are the NAVTEX areas identified ?
- A** Two lettres



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ARAJ

The typical current gain of a common emitter transistor is

**A** 10-200

ARGA

By FleetNET communications is understood:

**A** an EGC-message destined for ships of a certain company

ARGG

What regulations apply to the rigging of gangways?

**A** Means of Access Regs

ARJL

What is the main advantage of having a central cooling system fitted on board ship?

**A** It requires less maintenance

ARMX

What makes OPA-90 different from other international oil legislation

**A** All answers

ARNT

Indicate the correct name for the part marked on the sketch:

**A** Exhaust valve

ARQG

What do we mean with a IOPP certificate?

**A** With IOPP certificate we mean International Oil Pollution Prevention certificate and the ship is classed to prevent oil pollution

ARSY

What would be the most probable cause of an increase in cooling water temperature for all cylinders of a diesel engine?

**A** Jacket water cooler is clogged.

ARSY

What would be the most probable cause of an increase in cooling water temperature in all cylinders?

**A** Jacket water cooler is clogged.

ARSY

What would be the most probable cause of an increase in cooling water temperature in all cylinders?

**A** Jacket water cooler is clogged.

ARUM

You are on a vessel 10 nautical miles off the coast of Algeria, in the Mediterranean Sea. Are you allowed to dump food waste overboard?

**A** No, food waste can not be dumped overboard





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- ARUM** You are on a vessel 10 nautical miles off the coast of Algeria, in the Mediterranean Sea. Are you allowed to dump food waste overboard?
- A** No, food waste can not be dumped overboard
- 
- ASQC** Which of the following factors affect the separation process
- A** Density, viscosity, flow rate, temperature, gravity disc diameter
- 
- ASQX** If you are going aloft in a bosuns chair what kind of hook would you use to hook the chair to the rope?
- A** An approved hook with a locking device
- 
- ASUJ** The thermoexpansion-valve is a part of the refrigeration system. What is the thermo-expansion-valve doing?
- A** Regulating freon liquid flow to the evaporator.
- 
- ASUJ** The thermoexpansion-valve is a part of the refrigeration system. What is the thermo-expansion-valve doing?
- A** To control the flow rate of liquid refrigerant to the evaporator
- 
- ASXU** Which of the following is not systematically transmitted in a DSC all ship urgent call
- A** position
- 
- ASYN** Polarisation of a radio wave means:
- A** the direction of the electrical field
- 
- ATCS** You have received the nine digit MMSI of a ship on your DSC equipment. In which publication will you find the name of the ship?
- A** The ITU List of Callsigns and Numerical Identities of Stations used by the Maritime Mobile and Maritime Mobile-Satellite Services
- 
- ATLV** \*Which among the following list is required for lifeboat equipment according to present regulations ?
- A** be secured in a manner as not to interfere with abandonment procedures
- 
- ATLV** \*Which among the following list is required for lifeboat equipment according to present regulations?
- A** be secured in a manner as not to interfere with abandonment procedures
- 
- ATVX** VHF communication is usually provided by :
- A** ground wave



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- AUAY** In carbon dioxide fire-fighting systems for use in machinery spaces the fixed piping system shall be such that:
- A** 85% of the gas can be discharged into the space within two minutes
- 
- AUBY** \*For how long should a waterborne fire protected lifeboat be capable of protecting its full complement when subjected to a continuous oil fire enveloping it ?
- A** 8 minutes
- 
- AUDN** Which class of emission is used for MF radio telephony transmissions ?
- A** J3E
- 
- AUIH** Which of the following food categories contains the most calcium per 100 grams serving?
- A** Milk and cheese
- 
- AUIJ** The responsibility for the use of the mariphone on board lies with the:
- A** user of the installation
- 
- AUNF** How does the MAIB communicate their findings to an investigation?
- A** By producing and making available anonymous reports of incidents and accidents
- 
- AUSG** Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A:
- A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX and/or 1 EGC receiver and/or 1 HF NBDP watch receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver - 1 HF RT + DSC+ DSC watch receiver
- 
- AUYI** What is the name of the device used for continually checking ballast water as it is pumped overboard?
- A** Oil Detection Monitoring Equipment.(ODME).
- 
- AUYI** What is the name of the device used for continually checking ballast water as it is pumped overboard from an oil tanker?
- A** Oil Detection Monitoring Equipment.(ODME).
- 
- AVBU** What is the travelling speed of radioelectric waves?
- A** the speed of light
- 
- AVCH** Before entering the purifier, the lubricating oil is heated in order to:
- A** Lower the viscosity and improve purification.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

AVDC

Pledge of secrecy applies:

- A** only to certificate holders

AVED

In order to maintain the condition of the steel surface, stainless steel tanks are periodically given an acid-based treatment. What name is given to this process?

- A** Applying 12 - 15% nitric acid on tank surfaces, either with a brush or spray; then washing off after 10 - 20 minutes using copious amounts of fresh water?

AVED

In order to maintain the condition of the steel surface, stainless steel tanks on chemical tankers are periodically given an acid-based treatment. What name is given to this process?

- A** Applying 12 - 15% nitric acid on tank surfaces, either with a brush or spray; then washing off after 10 - 20 minutes using copious amounts of fresh water?

AVFY

Where shall manually operated call points in fixed fire-detection and alarm systems be located in accommodation spaces? (SOLAS II-2/13.2.1)

- A** At exits and in corridors

AVGT

Which of the following statements does not apply to fire doors in main vertical zone bulkheads and stairway enclosures in passenger ships?

- A** They can have hold back hooks not subject to control station release providing the emergency plan details a person to close them.

AVGU

A person wearing an anti-exposure suit shall be able to:

- A** jump from a height of not less than 4.5m into the water without damaging the suit or being injured

AVHN

What is contained on the front page of the ships register

- A** Ship's name, Official number, Length, breadth and draft, type of vessel, type and size of engine, name and address of the registered owner

AVOC

The engine turns when starting air is supplied but does not start. What could be the probable cause to this?

- A** Air in the fuel oil system.

AVPP

An air compressor is being refitted in the engine room. The compressor and motor are coupled using a flexible coupling and are mounted on a common skid which fixed to the deck with resilient mountings. Which of the statements, from the options given, relating to the alignment of the motor and compressor is

- A** Shims should be fitted between the motor and compressor feet and the skid to ensure

AVSJ

What is the purpose of the deck water seal on the deck of an oil tanker?

- A** To prevent combustion gases to flow back and enter the burner.

AVXJ

What does a "High viscosity substance" for Cat A & B products mean ?

- A** A substance with a viscosity equal to or greater than 25 mPa.s at the unloading temperature.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

AWAO

Why do many engine makers recommend to grind the valve spindle sealing surface with a half degree difference to the valve seat?

- A** To improve the sealing surface between valve and seat during operation of the engine (compensate for the bending of the valve disc caused by combustion pressure).

AWAW

Which of the following dinner dishes is it least appropriate to serve in tropical waters?

- A** Salted meat and ham, potato dumplings, mashed swedes, boiled potatoes.

AWMI

What may be the reason to an unsatisfactory separation result for a fuel oil separator of ALCAP type?

- A** Throughput too high.

AWNQ

The ring expander for removal and refitting of an air compressors piston rings is found to be broken and unusable. The work cannot be delayed until a replacement is obtained. Which of the methods given in the options should the ships engineers use to complete the work?

- A** Fabricate a conical guide from tin plate or similar with the large diameter just bigger than the compressor piston so the rings can be eased open for fitting.

AWPR

What will happen with the interface in the bowl, if the flow is too high?

- A** Broken water seal.

AWPR

What will happen with the interface in the bowl, if the flow is too high?

- A** Separating efficiency is reduced

AWUU

Which type of rotary pumps are suited for use as lubrication and oil piston cooling services on diesel engines?

- A** Any of the mentioned alternatives.

AWWH

What are the duties of an effective bridge look out?

- A** He is looking for navigational dangers.

AWXG

Why is it necessary to have routine testing of diesel engine cooling water systems?

- A** To ensure that the proper residuals of treatment chemicals, as specified, are maintained all time.

AWXG

Why is it necessary to have routine testing of diesel engine cooling water systems?

- A** To ensure that the recommended levels of treatment chemicals are maintained at all times.

AWYW

When lashing -people from ashore is engaged, who has the formal responsibility for the lashing of cargo?

- A** The Master?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- AXEV** The receiver of the Inmarsat-C installation, if the log-in procedure has been carried out, is turned on:
- A** NCS common channel
- 
- AXHH** What is the function of an OSC (OPA-90)
- A** On the Scene Co-ordinator
- 
- AXRH** When carrying out piston overhaul, it is important to clean the ring grooves properly. Why?
- A** To make sure gas pressure can enter freely on top of and behind the piston ring
- 
- AXSB** During a double banking operation the off-take or smaller vessel generally provides the moorings. If wires are used it is recommended that ropetails are fitted onto the ends of the wires. This is to:
- A** All the listed alternatives
- 
- AXTU** Fluctuation of high temperatures in a boiler furnace can lead to refractory lining failure in which the surface of the firebrick breaks away in layers. What is the term used to describe this type of failure?
- A** Slagging.
- 
- AXTU** Fluctuation of high temperatures in a boiler furnace can lead to refractory lining failure in which the surface of the firebrick breaks away in layers. What is the term used to describe this type of failure.for this?
- A** Slagging.
- 
- AXVM** The IGC code gives details of construction and equipment requirements for liquefied gas carriers. Under which circumstances would a liquefied gas carrier require a double bottom and a longitudinal bulkhead forming full side ballast tanks in way of the cargo containment system?
- A** Only when the design temperature is below -55oC and the tank is not independent type C , we must have full side ballast tanks
- 
- AXYU** On the figure there are four (4) possible definitions of the term "AIR DRAUGHT" given. Which one is the correct one?
- A** Air draught is given by C on the figure
- 
- AYHH** The INMARSAT C Mobile Earth Station Identification Number (IMN) consists of:
- A** nine digits, beginning by 4
- 
- AYOU** What is the emergency frequency on M.F. (Medium frequency) radio?
- A** 2182 Hz
- 
- AYQI** Low temperature corrosion can occur in both oil fired and exhaust/waste heat recovery boilers. Considering a fuel with same sulphur content, the air/fuel number, lamda, in a combustion process also indicates a relation to what temperature sulphuric acid condensates. What is the correct relation between
- A** High air/fuel ratio rises the condensation temperature, and thereby reducing the safe limits between normal operation and condensation temperature.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

AYRG

Must passenger ship carry a rescue boat onboard?

- A** Yes, one if the ship is under 500 brt. And two if the ship is over 500 brt.

BABO

Your vessel is going to take bunkers, and you are in charge of the preparations before bunkering starts. Which of the following do you consider as the most important item before bunkering starts?

- A** Tell the deck officer to hoist the red flag. (letter " B ") day signal, or red signal light in the signal mast during night time

BABS

\*Which one of the following items has to be included in an abandon ship drill?

- A** Checking that life-jackets are correctly donned

BACN

You are part of a team of two First Aiders in a resuscitation situation. What is the rhythm of resuscitation with two First Aiders?

- A** 5 compressions after every 1 inflation

BADL

Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these

- A** In case of major work the fire main shall be under pressure.

BAEB

In oil tanker operations, what is understood by the term "Load On Top"?

- A** Loading cargo "on top" of the oil and cargo residues in the sloptanks

BAEY

The mode F1B is used:

- A** in radiotelex-traffic in the MF/HF bands between ship and shore stations

BAFT

Which of the aggregate states have fixed volume, but not any fixed form.

- A** Fluids (liquids).

BAIE

Which item among those below is included in the normal equipment of every rescue boat ?

- A** one buoyant line, not less than 50m in length, of sufficient strength to tow a liferaft

BAIF

Which item among those below is included in the normal equipment of every lifeboat ?

- A** one set of fishing tackle

BAIF

Which item among those below is included in the normal equipment of every lifeboat ?

- A** One set of fishing tackle



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BAIF

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- A One set of fishing tackle

BAIG

Which ships shall be provided with international shore connection for supply of water as extinguishing media? (SOLAS II-2/19.1)

- A All ships of 500 tons gross and upwards

BAIH

On the figure there are four (4) possible definitions of the term "QUAY" given. Which one is the correct one?

- A Quay is given by A on the figure

BANY

The emergency battery of a GMDDS portophone:

- A must be replaced before the expiry date is exceeded

BAPV

On area A1 the function "Transmission and reception of signals for locating" is mainly based on:

- A the use of SART transponders

BAQT

What is the function of the form "Declaration" or similar in connection with supervision carried out pursuant to the Regulations of 25 November 1988 concerning supervision of maritime service?

- A To confirm to public supervisory authority that the requirements for the seafarer's service on board have been checked, are satisfied and that the compliance with the requirements has been duly documented.

BAUN

Is it possible to discharge a semi-refrigerated gas carrier if brake down on a discharge pump?

- A Semi-refrigerated gas carrier can be discharged by pressurising the cargo tanks or condensate the cargo to shore or another cargo tank or boil of the cargo

BAUP

Which of the following cargoes can solidify?

- A Latex

BAWI

What will a cadet find in the maintenance manual?

- A He will find a lubricating chart in the maintenance manual

BBAU

The crane on a General Cargo Ship is designed for Grab Service with a hoisting load of 16 tonnes including grab weight. Grab weight: 8 tons, Grab cubic: 10 m<sup>3</sup>. You are going to discharge a cargo of dry minerals having a stowage factor of between 0.7 - 0

- A 8 tons.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BBCC

Which item among those below is included in the normal equipment of every lifeboat ?

- A** a jack-knife attached by a lanyard

BBDF

\*Give the meaning of the following symbol

- A** Release gripes

BBHF

What does a flame screen do ?

- A** Permits the passage of vapor but not of flame

BBVQ

Give the meaning of the following symbol

- A** A class fire door self closing

BCAR

During a Crude Oil Washing operation, if measurement of the atmosphere within the tank indicated that the oxygen level had risen to above 8%, what action would you take?

- A** Stop operation?

BCCE

How can you keep a ship head up into the weather, with the rudder jammed in hard over position?

- A** - A rudder with part of the rudder area forward of the turning axis, therefore reducing the load on the steering motor.

BCCE

How can you keep a ship head up into the weather, with the rudder jammed in hard over position?

- A** Careful ahead manoeuvring

BCET

The boiler gauge glasses should be blown down

- A** At the beginning of every watch

BCKQ

What routine would be required before moving a heavy box in the engine room

- A** Carry out a risk assessment, make use of available equipment, and instruct staff on lifting techniques

BCLO

In discussing the characteristics of an oil cargo, what is the "cloud point"?

- A** Isomer compounds is substances with same chemical formula but different characteristic

BCQL

What type of lashing arrangement is needed on weather deck for securing one container high?

- A** Twistlocks?





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BCTN

What should not be given to a patient who has diarrhoea?

A Milk

BCVP

For how long shall a ships log-book be kept on board?

A For at least three years

BCXU

Which of the four calculations below is correct set up, if you want to find observed latitude when the sun is on the meridian?

A Calculation 3 is correct.

BDNB

What does the Captain want to have done?

A He wants the Chief Officer to organise a lifeboat drill

BDPJ

The starting air valve is fitted for the purpose of:

A Bringing the engine up to sufficient number of revolutions for combustion to take place and engine to run.

BDRD

Who are required to have participated in emergency preparedness training on a NIS cargo ship?

A All members of the crew

BDRI

Your vessel is to turn in a narrow canal by use of one tug (turn to port with the bow). In which position and how would you use the tug? (Vessels engine will also be used).

A Make the tug fast on port shoulder to pull

BDRI

Your vessel is to turn in a narrow canal by use of one tug (turn to port with the bow). In which position and how would you use the tug? (Vessels engine will also be used).

A - The position of the tug relative to the ship's pivot point

BDRI

Your vessel is to turn in a narrow canal by use of one tug (turn to port with the bow). In which position and how would you use the tug? (Vessels engine will be used as well).

A Make the tug fast on port shoulder to pull

BDRI

Your vessel is to turn in a narrow canal by use of one tug (turn to port with the bow). In which position and how would you use the tug? (Vessels engine will be used as well).

A - The position of the tug relative to the ship's pivot point

BDXV

What period of validity does an additional qualification e.g. Dangerous Cargo Endorsement have?

A Same as certificate to which it applies



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BEJI** On the galley stove, a pan containing oil catches fire, which of the following should NOT be used on this type of fire?
- A** Use a water extinguisher to put out the fire
- 
- BEJM** On a Chemical Tanker having 2 foam tanks for deck monitor use the foam quality has been found to have deteriorated. A new supply of foam is ordered. Your usual chandler does not have the required quantity of foam in one type and offers 2 types of foam instead, one for each tank. You would:
- A** Reject the offer?
- 
- BELE** How many or which one of the cargo pumps are required to give bleed off for crude oil washing? (the vessel is not fitted with own crude oil washing pump).
- A** Bleed off may be taken from any of the cargo pumps.
- 
- BEOP** When you join a new ship, how are you informed about safety rules, alarm instructions and your own duties in case of an emergency?
- A** By muster lists exhibited in conspicuous places
- 
- BEXX** Your vessel have been in collision with an other vessel. You are taking in water and you have to prepare for leaving the vessel. How will you act?
- A** - Organise someone to assess the extent of damage and the residual J stability of the vessel. \_\_\_\_
- 
- BEXX** Your vessel have been in collision with an other vessel. You are taking in water and you have to prepare for leaving the vessel. How will you act?
- A** Send a distress message and collect survival suits / thermal bags.
- 
- BFBF** Give the meaning of the following symbol
- A** Rocket parachute flares
- 
- BFCW** The whip-antenna of the MF transceiver was lost in bad weather. The MF-transceiver can be used again:
- A** if the whip-antenna is replaced by an antenna of about the same length as the original one
- 
- BFDT** You are witness to a collision between two other ships close to your vessel. What immediate action should you take?
- A** Identify the extent of damage to own vessel and take necessary steps to safeguard the complement and the vessel.
- 
- BFDT** You are witness to a collision between two other ships close to your vessel. What immediate action should you take?
- A** - Inform the local coast radio station of the incident and submit your \\_ ^name as a witness. \_\_\_\_\_
- 
- BFEN** Which is the "TUG TOWING LINE", in the figure?
- A** Tug towing line is given by D on the figure



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BFGX

Which of the following parameters will result in oscillation

- A** Too high amplification

BFGY

What does the Chief Officer want the First Engineer to do?

- A** The Chief Officer wants the 1st Engineer to empty the starboard bilge in hold No. 5

BFGY

What does the Chief Officer want the First Engineer to do?

- A** The Chief Officer wants the First Engineer to empty the starboard bilge in No. 5 hold

BFHQ

How will the ship behave if you have a "black out" in the situation illustrated?

- A** She will turn to port and the speed will drop gradually

BFHQ

How will the ship behave if you have a "black out" in the situation sketched below?

- A** She will turn to port and the speed will drop gradually

BFHW

Following complete shut down of the steam plant, the boiler has been heated in accordance with the correct starting up procedure, and the steam pressure is rising. What is the correct procedure to be adopted when opening the main steam valve to the range?

- A** That the combustion chamber of the boiler is checked being empty for oil and that the pre ventilation function prior to ignition is functioning.

BFIK

Between a complete removal and a renewing of floor polish what can you do to maintain a PVC floor surface?

- A** By soft machine scrubbing with red pad and a renewing of polish only where there is heavy traffic (f.i. in the middle of corridors and not the whole floor).

BFIN

A person wearing an anti-exposure suit shall be able to:

- A** don a lifejacket without assistance

BFIR

Breathing apparatuses is an important piece of equipment for being able to fight a fire onboard a vessel. What routine precautions to be observed with regard to use and maintenance of such equipment?

- A** All the mentioned alternatives.

BFJI

When tankcleaning after discharging a cargo of polymerising products (such as styrene monomer), you would, in order to avoid deposits of polymerised material:

- A** Pre-wash the tanks with cold water first?

BFKF

Which of the following cargoes can explode?

- A** Ammonium nitrate?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**BFNO** Which item among those below is included in the normal equipment of every liferaft ?

**A** an efficient radar reflector (or radar transponder)

**BFQW** By FleetNET communication is understood:

**A** an EGC-message destined for ships with the same group call number

**BFSL** \*All waste receptacles shall be of non-combustible materials, built and equipped with:

**A** No openings in sides and bottom

**BFTH** On a RoRo vessel carrying no more than 36 passengers, what is the minimum capacity of the ventilation system protecting standard cargo spaces intended for carriage of motor vehicles with fuel in their tanks for their own propulsion.

**A** 6 air changes per hour

**BFTI** Which statement is true?

**A** To minimize the scale formation, the Sea Water outlet temperature should never exceed 50 °C

**BFUP** What would be a correct form of response to the question: What is the weather in your position?

**A** The correct form of response would be to give the wind force and direction, the range of visibility and the sea state.

**BGBB** \*Among working conditions listed below which one is required for every propulsion engine of lifeboats?

**A** Fuel with a flash point of 44°C or more

**BGDM** What kind of problems have they had?

**A** They have had problems securing the gangway

**BGJK** During operation of the main engine, the heat absorbed by lubricating oil is removed by the:

**A** Lube oil cooler

**BHFX** Give the meaning of the following symbol:

**A** rescue boat

**BHIJ** A coated tank holds 400 tons of sea water when filled. How many tons of liquid of lighter weight 0.9300 will it hold when filled to 90% capacity?

**A** 326.6 Mt



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BHSE

What is digital signal?

- A** A signal representing 0 = "low" and 1 = "High"

BHTC

The variation in strength of the received signal is called:

- A** fading

BHTY

What should the expansion valve superheat setting be in order to get the best possible efficiency from a refrigerator evaporator?

- A** 5 - 10 Degr. C.

BHUW

What is the necessary protection when you are rust chipping with air tools?

- A** Protecting cloths, safety shoes, gloves, goggles, earmuffs.

BHWN

What is false regarding the function : "Transmission of ship to shore distress alerts"

- A** On area A1 this function is based on the use of SART transponders

BIND

At what number of crew members is it mandatory to have an Protection and Environment Committee on board?

- A** Minimum eight crew members.

BIND

At what number of crew members is it mandatory to have an Working Environment Committee on board?

- A** Minimum eight crew members.

BINY

\*Which among the following list is required for lifeboat equipment according to present regulations ?

- A** be secured in the lifeboat (except boat-hooks) by lashings, storage in lockers, compartments, brackets or similar arrangement

BIOW

Temperature sensors may be marked PT100. What does this mean?

- A** 100 ohm at 0° C

BIPR

On a UMS classed vessel the high pressure fuel pipes are covered with steel flexible shrouds with drainage. What is the main purpose of the protection ?

- A** In case of bursting pipe, to avoid oil spray hitting adjacent high heat surfaces of exhaust pipes etc.

BIPR

On a UMS classed vessel the high pressure fuel pipes have steel shrouds or use double walled pipes. Both are fitted with drainage. What is the main purpose of the protection ?

- A** In case of bursting pipe, to avoid oil spray hitting adjacent high heat surfaces of exhaust pipes etc.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BIUQ

Define the class of emission J3E :

**A** Radiotelephony - Single sideband suppressed carrier

BIWP

Give the meaning of this symbol:

**A** lifebuoy

BIYB

LPG and other liquefied gases are often transported by sea on fully refrigerated gas carriers. What is the generally accepted definition of a fully refrigerated gas carrier?

**A** That the MARVS is less than 0,7 bar

BJJW

Are all pumps and blowers shut down during the shut-down procedure?

**A** No, the sea water pumps are still running

BJKR

It is important that a compress is done correctly. One of the alternative signs , after completed compress bandage, shows that the bandage may be to tight. Which one?

**A** Swelling below the bandage and heavy pain

BJKR

It is important that a compress is done correctly. One of the alternative signs , after completed compress bandage, shows that the bandage may be to tight. Which one?

**A** Swelling below the bandage and heavy pain.

BJPV

What other purposes may a fixed fire-detection and alarm system be used for, in addition to fire indication? (SOLAS II-2/13.1.14)

**A** Controlled closing of fire doors

BJRE

Which one of the given requirements regarding manning and supervision of survival craft corresponds to the SOLAS regulation?

**A** A deck officer or certificated person shall be placed in charge of each survival craft to be used.

BKGJ

On what design temperature do we need full secondary barrier

**A** When the design temperature is below -55oC and the tank is not independent type B or C, we must have full secondary barrier

BK GK

\*In general, which of the following is the maximum length of a main vertical zone?

**A** 40 meters

BKKM

Some 4-stroke engines are fitted with a rotorcap on the cylinder head valves. For what reason?

**A** Improve the scaling surface function, increase the service time of the exhaust valve in the engine.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BKNU** Onboard the following message is received on the DSC controller:DOO: 245329000 CH16 ; Sdistress  
ack 244123000 What station sent the distress acknowledgement?
- A** 245329000
- 
- BKQG** What is the purpose of watertight doors?
- A** They will be closed if the ship get a damage on the ships hull, and taking in water. It will prevent the water to fill the whole deck. In case of fire they can also be used to stop the fire and smoke from diverge.
- 
- BKQS** Which of the methods given in the options should be used as part of the check of the accuracy of a liquid filled thermometer used in the cold rooms of the ships provisions stores?
- A** Immerse the thermometer in a mixture of distilled water and ice made from distilled water to check the zero reading.
- 
- BKTW** In safety terms, what is an "interlock"
- A** A device which prevents an operation of equipment to take place, to allow access or maintenance to be carried out
- 
- BLAK** Many LPG carriers are designed to carry the cargo in a fully refrigerated condition. What is the normal maximum cargo tank pressure on a fully refrigerated LPG carrier?
- A** Maximum cargo tank pressure on an fully refrigerated gas carrier can be 0,7 bar
- 
- BLAR** What is the emergency channel on VHF?
- A** Channel 16
- 
- BLBF** Which of the following is not a principle of heat transfer utilised in a boiler?
- A** Forced convection.
- 
- BLBF** Which of the following is not a principle of heat transfer utilised in a boiler?
- A** Ionisation.
- 
- BLBF** Which of the following is not a principle of heat transfer utilised in an oil fired steam boiler?
- A** Forced convection.
- 
- BLBF** Which of the following is not a principle of heat transfer utilised in an oil fired steam boiler?
- A** Ionisation.
- 
- BLCD** Which international code are regulating what safety equipment a passenger ship must have onboard?
- A** SOLAS



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BLDC

Give the meaning of the following symbol

**A** Radar transponder

BLDX

Which item among those below is included in the normal equipment of every rescue boat ?

**A** a sea-anchor with a hawser of more than 10m in length

BLFH

What is meant by that the tank atmosphere is "too rich" and "too lean"?

**A** Atmosphere is not combustible in either situation.

BLGF

What is the purpose of diesel engine cylinder head safety valve?

**A** To indicate and relieve excessive high pressure in the cylinder to protect the engine from being damaged.

BLGF

What is the purpose of diesel engine cylinder head safety valve?

**A** To relieve excessive high pressure in the cylinder to protect the engine from being damaged.

BLIR

Which of the following are SART COSPAS EPIRB frequencies :

**A** 406,025 et 121,5 MHz

BLWW

What do you understand by the term Grabbing?

**A** Making the grab bucket open and close.

BLXA

Give the meaning of the following symbol

**A** Line throwing appliance

BLXW

During a rescue operation, what should be taken onboard the Lifeboat / MOB ?

**A** VHF / W-T

BMES

Define the class of emission F1B :

**A** Radiotelex and DSC - Frequency shift keying of carrier with error correction

BMIR

Public correspondence VHF communications should normally be operated :

**A** In G3E mode - on duplex basis





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**BMKP** \*What quantity of reserve fuel, if any, is to be available outside the main machinery space for a diesel driven emergency fire pump?

**A** Sufficient amount for 15 hours of operation at full capacity

**BMLK** Why is it important to keep the condensate pH value within the correct range when operating steam boilers?

**A** To neutralize the acids occurring in the condensate system.

**BMTQ** At what temperature would you expect to carry a fully refrigerated cargo of butane?

**A** - 4° C

**BMWY** Give the meaning of the following symbol

**A** EPIRB

**BNEO** What is the minimum number of channels required for the portable two-way VHF's for survival craft?

**A** Channels 6, 13 & 16

**BNKJ** Choose the option which is most likely to result in erosion of the tubes in a heat exchanger.

**A** Cooling water velocity too high.

**BNKJ** Choose the option which is most likely to result in erosion of the tubes in a heat exchanger.

**A** Excessive cooling water velocity

**BNLE** Ordinary thyristors (SCR) must often be protected against reverse overvoltage transients because even over-voltages of extremely short duration can destroy them. These circuits have been given such over-voltage protection, but only one of them is correct. Which?

**A** Figure 1

**BNLE** Ordinary thyristors (SCR) must often be protected against reverse overvoltage transients because even over-voltages of extremely short duration can destroy them. These SCRs have been given such over-voltage protection, but only one of them is correct. Which?

**A** Figure 1

**BNOQ** Which electronic component is this graphical symbol illustrating:

**A** Potentiometer, 10 kilo-ohms

**BNOQ** Which electronic component is this graphical symbol illustrating:

**A** Potentiometer, 10 kilo-ohms



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**BNPF**

What will You do if the PH-value in the boiler water is under 7?

- A** Increase the dosage of chemicals, and take new test of the water.

**BNUC**

On area A1 the function " Reception of shore to ship distress alerts" is mainly based on:

- A** the use of VHF DSC

**BNXP**

What purpose has an discharge booster pump on a gas tanker?

- A** The main purpose with booster pumps is to increase the manifold pressure

**BNXR**

Some LPG carriers are designed with semi-membrane tanks. How would LPG normally be carried in semi-membrane tanks?

- A** No, membrane tanks is normally designed for transport of fully refrigerated cargoes

**BOGC**

As per SOLAS regulations, the general emergency alarm system must be tested:

- A** weekly

**BOGV**

These circuits are all active filters. Which of the circuits is a band-pass filter?

- A** Figure 3

**BOIO**

To minimise the risk of damage what type of tools should be used to clean boiler burner tips?

- A** brass knife

**BOIQ**

What is most important for the personnel on duty to supervise during a discharging operation including crude oil washing?

- A** Act according to the check list "during crude oil washing".

**BOKC**

Your vessel is moving in Panama Canal waters. When must a crew man capable of and ready to operate the anchors be on the forecastle?

- A** When a Panama Canal pilot is onboard

**BOKC**

Your vessel is moving in Panama Canal waters. When must a crew man, capable of and ready to operate the anchors, be on the forecastle?

- A** When a Panama Canal pilot is onboard

**BOLT**

The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to

- A** The method and use of sea-anchors (drogues).



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BONM

What shall a rescue person use if he has to jump into the water in order to assist a survivor?

- A** Survival suit and lifeline

BOTH

Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

- A** Check that the painter is made fast to a secure point and that the sea below is clear

BOTI

By a 'geographical area call' in the DSC system is meant:

- A** a DSC-message for all vessels within certain area marked by a reference position, given in the DSC message and the degrees are given in southerly and easterly direction

BOTK

The display of a DSC-controller shows the following:(see original)The name of this station can be found in:

- A** List of Call Signs and Numerical Identities

BOVF

A large electric motor is being removed from a main seawater pump with the aid of the engine room crane. Which is the best method of starting the lift from the options given?

- A** Use a suitable chain block suspended from the crane hook to 'break' the motor free after slackening all of the retaining bolts.

BOXP

Is there any special area where it is forbidden to pump out any sludge or oil residues?

- A** There are 9 special area where it is forbidden to pump out any sludge or oil residues

BOXP

Is there any special area where it is forbidden to pump out any sludge or oil residues?

- A** There is 5 special area where it is forbidden to pump out any sludge or oil residues

BPDK

Why are Chromate Based Cooling Water Treatments not allowed when the cooling system is connected to a fresh water generator?

- A** It could poison the fresh water if leakage occurs.

BPDK

Why are Chromate Based Cooling Water Treatments not allowed when the system is connected to a fresh water generator?

- A** It could poison the fresh water if leakage occurs.

BPEX

Why did they make the ladder ready on starboard side?

- A** Because they expected the harbor pilot to board the ship at 0730.

BQAQ

During discharging of crude oil the inert gas system fails totally. Should you:

- A** Stop all cargo operations and close the deck IG line isolating valve



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**BQAS**

One of the following areas is NOT a Special Area as mentioned in MARPOL regulations regarding pollution by oil. Which area?

**A** The Gulf of Mexico

**BQAS**

One of the following areas is NOT a Special Area as mentioned in MARPOL regulations regarding pollution by oil. Which is that area?

**A** The Gulf of Mexico

**BQCL**

What is the meaning of this symbol ?

**A** Secure hatches

**BQDK**

Which of the following fluids has the lowest density?

**A** Lubricating oil.

**BQFB**

Which means of communication is used by the NAVTEX system ?

**A** MF

**BQFY**

Which of the following is a precautionary measure to prevent fire:

**A** All the answers are good

**BQFY**

Which of the following is a precautionary measure to prevent fire in general:

**A** All the answers are good

**BQIE**

Which organisations are authorised to carry out statutory surveys of UK ships?

**A** MCA

**BQKT**

Do you confirm that personal safety provisions of the Seamens Act cannot, as per the NIS Act, be deviated from in a collective wage agreement?

**A** Yes

**BQNG**

What are the prerequisites for having a ship registered in NIS?

**A** That the shipowner is a Norwegian subject or fulfils other requirements stated in Norwegian acts

**BQQR**

Which of the following requirements regarding the number of lifejackets provided do NOT correspond to present regulations? (SOLAS III/7.2)

**A** A number of lifejackets equal to at least 10% of the total number of passengers and crew to be placed in the vicinity of the muster stations



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BQRJ** One of the risks of using CO<sub>2</sub> is the low temperatures that it reaches when it vaporises; this temperature is approximately
- A** -79°C
- 
- BQYD** What is the procedure when a ship/shore bonding cable is connected ?
- A** Connect bonding cable then connect hose.
- 
- BRCF** On area A2 the function " Transmission and reception of on scene communications" is mainly based on:
- A** the use of MF and/or VHF R/T
- 
- BRDD** Every vessel equipped according to the rules of GMDSS must be provided with:
- A** NAVTEX-receiver
- 
- BRJT** On the figure 4 possible definitions of the term "Bridge" are given. Which one is the correct one?
- A** Bridge is given by A on the figure
- 
- BRKR** UFL and LFL are commonly used expressions. What do they signify?
- A** Upper Flammable Level / Lower Flammable Level of explosive atmosphere?
- 
- BRKU** In order to extinguish a flammable liquid of the same kind as alcohol, we can use:
- A** Anti-alcohol foam
- 
- BRNN** The speed of ships generator is regulated by the governor. A 10% reduction in generator speed occurs due to a faulty governor. The likely consequence for all motors powered from this generator is to:
- A** Reduce motor speed by about 10%
- 
- BRUR** Every person onboard ship has a responsibility for safety and security. General house-keeping rules should be followed. Which of the listed rules is the most important onboard a tanker?
- A** Do not carry lighters or matches on the tank deck.
- 
- BRUR** Every person onboard ship has a responsibility for safety and security. General house-keeping rules should be followed. Which of the listed rules is the most important onboard a tanker?
- A** Never carry lighters or matches on the tank deck.
- 
- BRXD** From the options given, select the conditions that you would expect to give best separation results from a centrifuge operating as a purifier.
- A** Separation with correct temperature and low flow rate.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BRXD** From the options given, select the conditions that you would expect to give best separation results from a centrifuge operating as a purifier from the options given.
- A** Separation with correct temperature and low flow rate.
- 
- BRXF** To maintain a fire, three conditions need to be met: Oxygen, combustible material and sufficient temperature for combustion. What subject must be removed to extinguish the fire?
- A** Either of the mentioned alternatives.
- 
- BRYX** What is the safe time for operating the crankcase door when oil mist alarm is activated and the engine has been stopped?
- A** After 20 minutes
- 
- BRYX** What is the safe time for operating the crankcase door when oil mist alarm is activated and the engine has been stopped?
- A** After at least 20 minutes
- 
- BSAQ** In accordance with GGMDSS rules, the frequency 2187.5 kHz is used for:
- A** distress alerting
- 
- BSDA** Automatic amplifier regulation is used for the following reasons:
- A** with weak incoming signals distortion is reduced
- 
- BSFK** What is a polar (liquid)?
- A** a liquid that mixes with water
- 
- BSHD** A class D fire involves what type of material?
- A** Metals
- 
- BSJY** A seaman has failed to return to the ship after shore leave, what actions do you take?
- A** If time permits, send someone to try to find him. Notify the agent. Have the seaman's possessions collected and packed by two crewmembers, with three lists of contents. Notify the company. Sign the seaman off in his absence, detailing reason for him/her no
- 
- BSME** In what kind of atmosphere should tank washing be carried out when no inert gas plant is in operation?
- A** Too lean ( less than 2% by volume of hydrocarbons) or over rich ( in excess of 15% by volume of hydrocarbons ).
- 
- BSMJ** Before starting the transfer of an oil cargo between a ship and a terminal, the person in charge on the vessel and the person in charge in the terminal must hold a pre transfer conference. Who will subsequently decide when to start the cargo transfer?
- A** Both persons in charge



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BSNH**      Temperatures are often measured by using platinum resistance thermometers. The characteristics shown are all calibration curves for such devices. Which of them is a calibration curve for a P T100 sensor?
- A**    Figure 1
- 
- BSNH**      Temperatures are often measured by using platinum resistance thermometers. The characteristics shown are all calibration curves for such devices. Which of them is a calibration curve for a P T100 sensor?
- A**    Figure 1
- 
- BSNI**      With respect to earthing (grounding) of signal cables. Which of the 4 alternatives is correct for a cable for analogue signals?
- A**    Figure 1.
- 
- BSPO**      Which item among those below is included in the normal equipment of every lifeboat ?
- A**    anti-seasickness medicine and one seasickness bag for each person
- 
- BSTU**      To which governmental body does the MAIB report ?
- A**    The Secretary of State responsible for Shipping
- 
- BSVJ**      The circuit consists of two inductors,  $L(1) = 6 \text{ H}$  and  $L(2) = 12 \text{ H}$ , connected in parallel. Calculate the equivalent  $L(S)$  of the two inductors.
- A**     $L(S) = 4 \text{ H}$
- 
- BSVK**      Who is responsible for securing of derricks, cranes and other equipment?
- A**    The Master?
- 
- BSYR**      The shown provisions of the Maritim Act and the Seamens Act relate to each other. What combination is the most relevant?
- A**    Provisions on maritime inquiry and death and burial.
- 
- BTBL**      Fire provokes:
- A**    gases, flames, smoke and heat
- 
- BTES**      Which one of the listed requirements regarding life-jackets corresponds to present SOLAS regulations? A life-jacket shall be so constructed that:
- A**    It allows the wearer to jump from height of at least 4.5 m into the water without injury and without damaging the life-jacket.
- 
- BTHE**      What are the usual nozzle diameters for COW machines?
- A**    The Part Flow System makes it possible to observe the discharge visually for oil content, on older tankers with discharge below the waterline



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BTKK

C

A Constructed of non-combustible material

BTKK

C

A Constructed of non-combustible material

BTNT

What part of the General Cargo vessels construction is known as the "inner bottom"?

A Tank top

BTOO

When stripping a tank, excessive air in the suction line may cause.

A loss of suction

BTPM

What is meant by the term "two stage air compressor" ?

A A compressor in which the compressed air from the first stage is further compressed in

BTPM

What is meant by the term "two stage air compressor" ?

A Air from stage one goes through discharge valves in stage one and through suction valves into stage two. In stage two it will be compressed to high pressure air.

BTTW

A personal call means that:

A the applicant on board wishes to have a conversation with a person whose name is known

BTVE

A MMSI number consist of:

A 9 digits

BUAI

Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A Before the tank is entered, lifeline, rescue harness and compressed air apparatus shall be ready at the relevant hatch.

BUAK

The inert gas system shall be capable of delivering inert gas to the cargo tanks at a rate of at least:?

A Once a year/18 months

BUAK

The inert gas system shall be capable of delivering inert gas to the cargo tanks at a specified percentage in relation to the cargo discharge rate. What is that percentage?

A Once a year/18 months





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BU CX** You are in a position as illustrated. What is the instantaneous oil discharge limit according to MARPOL ?
- A** 30 L/nm
- 
- BU DW** The ABC-rules are an important part of the First Aiders know how. What does the First Aid ABC-rules stands for?
- A** Airway Breathing Circulation
- 
- BU FM** What is a contingency plan for ships?
- A** Plan for safety preparedness
- 
- BU GD** The proper operation of the telex mode of an Inmarsat-A terminal can be tested by:
- A** requesting an "automatic linetest"
- 
- BU GF** Your vessel is progressing within a Traffic Separation Scheme and receives a navigational warning of another vessel progressing the wrong way within the scheme. What actions should be taken on the bridge, if any?
- A** - Use the Arpa for early identification of all other ship movements within the traffic lane and give rogue vessel a wide berth
- 
- BU MG** A slow speed diesel engine is fitted with a slow turning facility. How would the slow turning normally be set to operate?
- A** It should automatically operate before the normal start sequence following an engine
- 
- BU OO** What is a "carving note" used for?
- A** It confirms that a ship has been "carved" and allows the Ship's Register to be issued
- 
- BU OR** The charge of a message sent by the Inmarsat-C installation must be calculated. The size of the message is 4096 bits. The charges for the message sent is 0,17 SDR per unit. The total charge for the message is:
- A** 16 times 0,17 SDR
- 
- BU RD** Many marine steam boiler designs incorporate external "downcomers". What is the main purpose of these downcomers?
- A** Ensure adequate circulation in all conditions of steaming.
- 
- BU WV** Which of the following is a INMARSAT B Mobile Earth Station Identification Number (IMN)?
- A** 322753810
- 
- BVES** How many separate means of escape routes from passengers and crew spaces shall passenger ships carrying less than 36 passengers have? (SOLAS II-2/28)
- A** Two



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- BVJN** The display of the DSC-controller on board is showing the following lines:RX: 002442000 ; Ch87 ; D Sellcall Routine We're asked to listen on:
- A** VHF-channel 87
- 
- BVJQ** Which one of the given requirements regarding survival craft muster and embarkation arrangements corresponds to the present SOLAS regulations?
- A** Muster and embarkation stations shall be readily accessible from accommodation and work areas.
- 
- BVKI** What is the IMO definition of liquefied gases?
- A** Liquefied gases is defined as chemicals with vapour pressure above 2,8 bar absolute at 37,8oC
- 
- BVQC** \*For how long should the self contained air support system on a totally enclosed lifeboat having its engine running be capable of providing safe and breathable air ?
- A** 10 minutes
- 
- BVTJ** Does the Hygiene Officer employed by the MCA have the same authority as other MCA officials?
- A** Yes, a ship can be detained on hygiene grounds, but it is more likely that after inspection the hygiene officer would call in other inspectors
- 
- BWEG** A received DSC 'distress alert' contains the following information: "UNDESIGNATED DISTRESS" Of this distress case:
- A** the nature of distress is unknown
- 
- BWEI** After receiving a DSC-distress alert in the VHF frequency band one should:
- A** listen out on VHF channel 16
- 
- BWKE** Erosive tube failure in a heat exchanger could be the result of:
- A** Excessive cooling water velocity
- 
- BWKG** In a series installation of a purifier and a clarifier, what is the purpose of the clarifier
- A** As a safety net, for improved cleaning of the fuel oil
- 
- BWLW** \*As a general rule, what is the minimum flash point of an oil used as a liquid fuel on board?
- A** 60°C
- 
- BWSO** To maintain a fire, three conditions need to be met: Oxygen, combustible material and sufficient temperature for combustion. What subject must be removed to extinguish the fire?
- A** Either of the mentioned alternatives.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

<b>BWVB</b>	What should be the first indication that the engine room watchkeepers get that there is oil or water leakage in the engine room?
<b>A</b>	All those listed in the other alternatives
<b>BWVB</b>	What should be the first indication that the engineroom watchkeepers get that there is oil or water leakage in the engineroom??
<b>A</b>	All those listed in the other alternatives
<b>BWWT</b>	What separating temperature do You mean is best for lub. oil?
<b>A</b>	85 - 90 Centigrades.
<b>BXAA</b>	What is the purpose of an oil mist detector, OMD, as fitted to a diesel engine?
<b>A</b>	To detect and give an alarm and slowdown of any potentially explosive atmosphere in the crankcase.
<b>BXFY</b>	What do international and national maritime authorities say about passenger list?
<b>A</b>	All personnel onboard (crew and passengers) must be registered to keep a track of number of people onboard.
<b>BXKD</b>	*Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?
<b>A</b>	equipping of the survival craft
<b>BXKL</b>	What are the three volumes of the IAMSAR Manual?
<b>A</b>	- I Organization and Management II Mission Co-ordination III Mobile Facilities.
<b>BXPC</b>	When loading cargo, if line sampling is required, samples should be drawn from:
<b>A</b>	As near as possible to the ship's manifold?
<b>BXUA</b>	This circuit consists of a voltage source V, a change-over switch S, a resistor R and a capacitor C. The voltage/time figures 1 to 4 show changes in the voltage V(C) when the switch S is suddenly shifted from position 1 to 2 at time t = 0. Only one of the diagrams is correct. Which?
<b>A</b>	Figure 1
<b>BXUA</b>	This circuit consists of a voltage source V, a change-over switch S, a resistor R and a capacitor C. The voltage/time figures 1 to 4 show possible changes in the voltage V(C) in case the switch S is suddenly shifted from position 1 to 2 at time t = 0. Only one of the diagrams is correct. Which?
<b>A</b>	Figure 1
<b>BYAU</b>	How can you monitor the liquid level in the vapour line?
<b>A</b>	By use of a float switch or differential pressure in the liquid receiver



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

BYIN

Which country requires a vessel to have a written Waste Management Plan?

A U.S.A

BYKV

You are on a 10.000 ton Chemical Tanker that in addition to fixed foam monitors, is equipped with portable foam applicators. One of the applicators is lost. When ordering a new one you would order one with:

A A throughput of at least 400 liters a minute and a "throw" of 15 metres?

BYKX

Boiler water tests on a low pressure steam boiler show the chloride content to be 50 ppm. What action should be taken if any?

A Do nothing.

BYKY

What is false regarding the function :” Transmission and reception of on scene communications ”

A On area A4 this function is based on the use of HF R/T

BYMI

Which of the spices listed here comes from dried tree bark?

A Cinnamon

BYMK

A coast radio station for sea area A2 has at least the following frequencies at its disposal

A 2187.5 and 2182 KHz

BYSG

Testing a SART is permitted:

A at sea, outside territorial waters, and in a port or harbour

BYSN

Shall a special form for employment agreement be used for service on NIS ships?

A Yes, on a form prescribed or approved by the Norwegian Maritime Directorate

CABB

Which of the following changes would occur when the temperature of lubricating oil is reduced?

A Viscosity.

CABE

On what frequency is the radio telephony two tone alarm normally sent?

A 2182KHz

CABT

During a helicopter evacuation, the helicopter lowers his winch wire to the deck. Which of the following should NOT be done with the winch wire?

A All of the mentioned actions



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- CADH** Please indicate the correct sequence of action to take place in an alarm/monitoring and safety system.
- A** Alarm, st.by start, slowdown. shutdown
- 
- CAFE** What would be the preferred colour to use when maintaining the paint on shell, plating, structure and bottom/tanktop in the engine room?
- A** White or light grey to ensure all minor spills and leakages are noticed and dealt with.
- 
- CAFG** When are power-operated watertight sliding doors (class 3 doors) compulsory for all watertight doors aboard passenger ships?
- A** Where the ship has passenger spaces below the bulkhead deck
- 
- CAGF** On the figure 4 possible definitions of the term "AHEAD" are given. Which one is the correct one?
- A** Ahead is given by A on the figure
- 
- CAGV** Spray painting has been carried out in the engine room while the engine was running. The turbocharger was not protected during the work. This could be the reason for:
- A** Exhaust gas temperatures are higher than normal.
- 
- CBAH** During helicopter evacuation of an injured man, what course should the ship steer?
- A** As instructed by the helicopter pilot
- 
- CBBT** When a conventional rudder is put hard over it creates a lift force and a drag force. When the ship has started to turn, how much lift force do you think remains if the rudder-angle is decreased to 20 degrees from hard over position (35 degrees)?
- A** - About 80 %
- 
- CBBT** When a conventional rudder is put hard over it creates a lift force and a drag force. When the ship has started to turn, how much lift force do you think remains if the rudder-angle is decreased to 20 degrees from hard over position (35 degrees)?
- A** About 80 %
- 
- CBEC** What is the definition of a young person as it applies to the Crew Agreement?
- A** Someone of at least school leaving age and less than 18
- 
- CBHK** SART is short for:
- A** Search and Rescue radar transponder
- 
- CBHQ** What are the ordinary working hours on NIS ships?
- A** Maximum 8 hours per day, or 40 hours per week



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CBJF

The compulsory testing of a prescribed SART is to be done:

**A** once a month

CBTH

Where is the acceptable location to smoke while on duty, or working in a cargo deck stowed with containers?

**A** Walk to a smoking area inside the accommodation?

CBUI

During cargo operation damage occur to the ships gear or equipment. What to do first?

**A** Report to the chief officer or chief engineer.

CBYE

In the life raft, the manually controlled inside lamp must be capable of working at minimum for a period of:

**A** 12 h

CCCT

During which time may watertight doors in watertight bulkheads in tweendeck cargo spaces be kept open in passenger ships?

**A** In ports only

CCEH

Which wave length applies to a frequency of 150 MHz?

**A** 200 cm

CCML

When handling and connecting cargo hoses between ships you might be required to have a bend in the hose when it is suspended. The minimum radius of the bend is governed by the diameter of the hose and is generally calculated as:

**A** 6 times the hose diameter.

CCNF

How will you treat a seasick person?

**A** Leave him in bed or request him to have some fresh air.

CCOE

What will happen with the interface in the bowl, if the flow is too high?

**A** Broken water seal.

CCOF

Some of the valves in a pipeline system may be marked with the letters "ESD". What do these letters stand for?

**A** Emergency shut down.

CCSF

What do you do after receiving a MF DSC DISTRESS call ?

**A** You set watch on channel 2182 KHz



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CDBN

According to their physical state, extinguishing agents may be classified:

- A** Solid, liquid and gases

CDBN

According to their physical state, extinguishing agents may be classified in to:

- A** Solid, liquid and gases

CDJB

Which is the correct term given to the company providing stores and provisions to a ship in port?

- A** The ship chandler

CDJB

Which is the correct term given to the company proving stores and provisions to a ship in port?

- A** The ship chandler

CDJY

The purpose of the wear ring for the illustrated pump is to -

- A** Provide a replaceable wear surface for the pump housing/impeller.

CDRH

Which of the following is not a mean of ensuring the availability of equipment (maintenance methods)?

- A** Computer-aided maintenance

CDSB

During the 5-yearly overhaul and operational test of a lifeboat on-load release gear, to what level should the gear be load tested?

- A** - 1.1 times the total mass of the lifeboat when loaded with its full complement of persons and equipment.

CDVT

What is meant by a two stage compressor ?

- A** Air from stage one goes through discharge valves in stage one and through suction valves into stage two. In stage two it will be compressed to high pressure air.

CDWF

What must be done before a holder of a Non- Norwegian certificate can serve in a position for which a certificate of competency is required on NIS ships?

- A** A duly completed application with certificate etc. must be made to the public supervisory authorities as an endorsement/ qualification document

CDWK

"Fading" can partially be compensated by:

- A** Automatic gain control

CEBM

What do you think would be the most likely cause of too low suction pressure in a freon compressor?

- A** System undercharged with refrigerant



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CEBM

What do you think would be the most likely cause of too low suction pressure in a freon compressor?

**A** Too little gas in the system.

CEHB

Ships generators must be synchronised before they can be connected to the same supply network. Prior to synchronising, the generator voltage and frequency are respectively adjusted by:

**A** AVR and speed governor

CEIB

What separation temperature do You recommend for heavy fuel?

**A** 95 - 98 Celsius.

CEIB

What separation temperature do You recommend for heavy fuel?

**A** 98 Centigrades.

CEIC

In case of fire in the switch board, what kind of extinguisant to be preferred?

**A** CO2

CEJU

What is the role of a tug in a port?

**A** Because they wanted to make sure that the ship could be safely turned.

CEME

How is a Safety Management Certificate obtained?

**A** Ship owner has Document of Compliance issued, and vessel is assessed and holds all

CEME

How is a Safety Management Certificate obtained?

**A** Ship owner has Document of Compliance issued, and vessel is assessed and holds all statutory certificates

CEOV

Ship to ship communication during SAR should be executed by?

**A** VHF and MF

CEPQ

Personal hygiene is important in all professions, especially cooks who should be particularly careful. Why?

**A** Because a cook handles food and beverages and could easily be a spreader of viruses and infections.

CETS

For how long shall time sheets concerning working hours on board ships be kept after their completion?

**A** For minimum 3 years





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CETX

The position of a 406 MHz Cospas-Sarsat EPIRB is:

- A** measured by the "dopler" shift in the signals

CFBL

Why did the Second Engineer wish to make a monthly allotment?

- A** Because he was married.

CFBM

Which of the following prevention actions offers the guarantee of an efficient intervention in an emergency

- A** All answers are goods

CFDU

Temperature sensors of all types are normally mounted in a well, or pocket, when used in pipelines. Why?

- A** Allow removal of the sensor also when liquid is flowing in the pipe.

CFDU

Temperature sensors of all types are normally mounted in a well, or pocket, when used in pipelines. Why is this done?

- A** Allow removal of the sensor also when liquid is flowing in the pipe.

CFGH

The watertight integrity of a vessel must be intact, when?

- A** When manoeuvring?

CFHB

There are many applications in circuit theory where it is important to obtain the maximum possible power that a given source can deliver. This figure consists of a practical voltage source  $V(g)$  with internal resistance  $R(s)$ . A resistance  $R(L)$  will maximize the power transmission from the source to  $R(L)$ ?

- A**  $R(L) = R(s)$

CFHB

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CFHB

There are many applications in circuit theory where it is important to obtain the maximum possible power that a given source can deliver. This figure consists of a practical voltage source  $V(g)$  with internal resistance  $R(s)$ . What value of resistance  $R(L)$  will maximize the power transmission from the source to  $R$

- A**  $R(L) = R(s)$

CFOP

The bowl in a fuel oil separator opens unintentionally during operation. What is the reason to this?

- A** Strainer in operating water low-pressure side is clogged.

CFSA

What is the purpose of watertight doors?

- A** They will be closed if the ship get a damage on the ships hull, and taking in water. It will prevent the water to fill the whole deck. In case of fire they can also be used to stop the fire and smoke from diverge.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CFWG

What is the industry standard requirement for connecting a flanged cargo hose?

**A** A bolt in every hole

CFWG

What is the industry standard requirement for connecting a flanged cargo hose on an oil tanker?

**A** A bolt in every hole

CFXD

Can an MCA Marine Officer prosecute a master of a non-uk ship?

**A** They can bring any seafarer involved in an incident on the UK coast to court and provide evidence regarding the incident

CFYN

Most of the engine makers recommend to change the cylinder head gaskets each time a piston overhaul is carried out. Why?

**A** To minimise risk of gas leakage and ensure correct clearance between piston and cylinder cover.

CFYN

Most of the engine makers recommend to change the cylinder head gaskets each time a piston overhaul is carried out. Why?

**A** To obtain a proper sealing and correct distance between piston and cover in TDC position

CGAH

What is the ideal relation between two following amplitudes on the response curve

**A** 1:4

CGAJ

In a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

**A** The smallest diameter piston is the stage two piston.

CGDW

Which class of emission is used for VHF DSC transmissions ?

**A** F1B

CGER

Which of the following fittings shall be provided to all lifeboats:

**A** a manually controlled lamp fitted on the inside

CGON

If you recognise that fire has broken out onboard , what should your course of action consist of ?

**A** Report to bridge or duty officer, actuate the fire alarm, call the persons around the fire and join the fire squad

CGUH

**A**

**A** Insulated on both sides with approved non-combustible material



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CGXS

What is the meaning of the term "valve clearance"?

- A** The clearance between the rocker arm and valve pushrod.

CGXV

What should a cadet be aware of when using a needle gun?

- A** He should be aware of the steel thickness of the valve

CHHV

The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

- A** Donning of fire protection clothing

CHHV

The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects have to be explained in detail in the manual according to present regulations?

- A** Donning of fire protection clothing

CHMA

Your vessel is moored alongside in Houston, discharging oil to the terminal. During discharging your vessel is hit by an other vessel and your vessel is leaking oil into the Houston Channel. What will you as Sen.Off.Deck do?

- A** Stop discharge, inform USCG and Qualified Individual.

CHNU

What characterizes a 2 stroke diesel engine ?

- A** A 2 stroke engine has an ignition every time the piston reaches its top position

CHPK

A cargo hold containing cargo such as nitrates, chlorates etc which produce oxygen under the influence of heat catches fire. How would you deal with this?

- A** With this type of material the hatches should not be battened down. The fire can only be extinguished by using large quantities of water.

CHQA

The proper operation of an Inmost C-terminal can be tested by:

- A** doing a "linktest"

CHQC

An immersion suit which has its own buoyancy is fitted with:

- A** a light plus a whistle

CHRB

What is the purpose of the decanting line between two slop tanks on an oil tanker that is using water for the washing of the cargo tanks?

- A** Make it possible to retain most of the recovered oil in the primary slop tank, while cleaner part of the water will flow into the secondary slop tank, where it can be re-used as wash-water

CHRB

What is the purpose of the decanting line between two slop tanks when you are water washing a cargo tank?

- A** Make it possible to retain most of the recovered oil in the primary slop tank, while cleaner part of the water will flow into the secondary slop tank, where it can be re-used as wash-water



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**CHRU** When connecting a tugboat, what speed do you think is best for your vessel to maintain during this operation?

**A** - The speed should be less than 5 knots, normally 3-5 knots

**CHRU** When connecting a tugboat, what speed do you think is best for your vessel to maintain during this operation?

**A** The speed should be less than 5 knots, normally 3 - 5 knots

**CHXS** What kind of foot wear should be used when working on deck and in the engine room?

**A** Safety shoes or safety boots

**CHYN** The squelch on the control panel of a VHF-sat serves to:

**A** adjust the threshold level for admitting signals and refusing noise

**CIAG** What kind of safety equipment must be worn during anchoring?

**A** All of the mentioned equipment.

**CIIO** Which of the following names is given to the basic types of foam as far as they are differentiated according to the way bubbles are obtained:

**A** Chemical, physical or mechanical foams

**CIMU** What is the highest permitted back-pressure for the Cargo Pump when it is tested?

**A** 1.25 times the maximum working pressure

**CIPM** One or a certain number of smoke sensors are switched off during routine maintenance work to prevent false alarm. During coffee break the following precautions are taken:

**A** All alarms are reengaged prior to switching to UMS-mode

**CIUK** What is the period of validity of a PC

**A** 1 year

**CIUL** How often must inspection of proper working of the EPIRB 's and SART 's take place on board? Once per:

**A** month

**CJLY** On area A4 the function " Transmission and reception of signals for locating " is mainly based on:

**A** the use of SART transponders



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CJNM

What is the shortest distance between two points on the surface of the earth?

A Great circle

CJNR

What is the most important factor influencing the VHF range?

A the height of the antenna

CJUB

All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.8 - 10.1.10)

A Deck cargo shall not block emergency exits or exits from accommodations or machinery spaces.

CKAU

Non distress calls on 2182 kHz and VHF channel 16 should not exceed:

A One minute.

CKAY

What problem is associated with loading machinery in wooden crates?

A 0.7 bar?

CKBY

The vessel is in a 360 degrees turn with engine full ahead. If the engine speed is reduced during the turn, will there be any change in the turning diameter?

A Yes, the turning diameter will increase if I reduce speed

CKBY

The vessel is in a 360 degrees turn with engine full ahead. If the speed is reduced during the turn, will there be any change in the turning diameter?

A Yes, the turning diameter will increase if I reduce speed

CKFA

What is the meaning of instrument calibration

A Comparing input and output values against a documented standard

CKHN

The discharge arrangements for halogenated hydrocarbon total flooding systems shall be so designed that the minimum quantity of medium can be discharged in (based on the discharge of the liquid phase): (SOLAS II-2/5.3.5)

A 20 seconds or less

CKHS

Based on average consumption, how much beef entrecote would you buy for 90 days for a crew of 30 men?

A 75 Kg

CKIH

Which one of the listed requirements regarding life-jackets corresponds to present SOLAS regulations ? A life-jacket shall be so constructed that:

A it allows the wearer to jump from height of at least 4.5 m into the water without injury and without damaging the life-jacket



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- CKII** For how long time should a SARTSAT COSPAS epiirb be able to operate on its batteries ?
- A** 48 hours
- 
- CKLT** What is the radio telephone distress signal?
- A** MAYDAY
- 
- CKPA** What is the purpose of refractory linings in an oil fired steam boiler furnace?
- A** Prevent excessive furnace heat losses
- 
- CKPX** On an "Unattended Machinery Space" classed vessel, the high pressure fuel pipes are covered with steel flexible shrouds with drainage. What is the main \*purpose of this protection?
- A** In case of a bursting pipe, to avoid oil spray hitting adjacent hot surfaces or coming into machinery air intakes
- 
- CKPX** On an "Unattended Machinery Space" classed vessel, the high pressure fuel pipes are double pipes, or covered with steel shrouds, with drainage. What is the main purpose of this protection?
- A** In case of a bursting pipe, to avoid oil spray hitting adjacent hot surfaces or coming into machinery air intakes
- 
- CKRM** How often must lifeboats be launched i.e. in the water on a British ship
- A** Periods not exceeding 3 months
- 
- CKSH** If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the rhythm when performing M-T-M in combination with ECC with one First Aider only ?
- A** 15 compressions followed by 2 full ventilations
- 
- CKSH** If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the rhythm when performing M-T-M in combination with ECC with one First Aider only ?
- A** 15 compressions followed by 2 full ventilations.
- 
- CKSJ** Carbon is the element that naturally forms most natural chemical compounds. In natural conditions there are only two different carbon elements, which ones?
- A** Diamond and graphite.
- 
- CLAV** Portable tank-cleaning machines need to be electrically "grounded" to avoid any electrostatic hazard. How is this normally achieved?
- A** The water supply hoses contain internal wires that act as conductors
- 
- CLIB** Choose the option which most accurately completes the following statement. The expansion tank in a closed cooling water system is designed to maintain a positive head on the system and also to.....
- A** Allow for changes in water volume due to temperature variation (expansion)
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- CLIB** Choose the option which most accurately completes the following statement. The expansion tank in a closed cooling water system is designed to maintain a positive head on the system and also to.....
- A** Allow for increase in water volume
- 
- CLNB** Oily rags and metal turnings
- A** are a fire hazard because they are liable to spontaneous combustion
- 
- CLPR** What is the purpose of the corrugations on the plates?
- A** All of these.
- 
- CLUS** On chemical tankers, where dangers of both flammable & toxic gases exist, instruments to detect these shall be provided. If portable equipment is provided, you shall have:
- A** At least two sets of instruments to detect each type of gas expected to be encountered?
- 
- CLUU** What will You do if the PH-value in the boiler water is over 11?
- A** Blow the boiler and renew water until the PH-value is normal again.
- 
- CLVE** At what calendar interval is a "Special Survey" required?
- A** - 5 years.
- 
- CLWK** How many grams of margarine and white flour would you use to make 1 litre of cream soup?
- A** 40 gr of each
- 
- CLYV** A « OSC » is :
- A** The master of a ship who coordinates on scene search and rescue operations
- 
- CMET** One has a direct connection with a telex-subscriber by way of a coast-station. What command break the land line connection with the subscriber:
- A** kkkk
- 
- CMJB** \*How long should it take to release at least two thirds of the charge of CO<sub>2</sub> that is provided for a ro-ro cargo space protected with a fixed carbon dioxide fire-extinguishing system?
- A** Not more than 10 minutes
- 
- CMLL** A shore gangway is supplied, who is responsible for ensuring that it is properly rigged
- A** The Master



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CMOA

For which ships is the load line convention applicable?

**A** For all vessels.

CMTS

A Cospas-Sarsat EPIRB can be used in:

**A** all sea-areas (A1 to A4)

CMWC

Which is the "QUAY", in the figure?

**A** Quay is given by A on the figure

CMWH

On the figure 4 possible definitions of the term "PORT QUARTER" are given. Which one is the correct one?

**A** Port quarter is given by D on the figure

CNLM

What is the meaning of "clingage"?

**A** They tend to contain heavy vapours inboard during cargo operations?

CNXX

Do you need a sink if your ship is provided with a dishwashing machine?

**A** A sink is always needed irrespective of the type of the dishwashing machine provided.

CNOS

Cross-flooding fittings shall be operable from:

**A** Above the bulkhead deck

CNQG

A distress-call received via RCC should:

**A** only be given receipt when the ship is actually able to give assistance

CNQH

\*The container for an inflatable liferafts shall be made:

**A** watertight, as far as possible, except for drain holes in the container bottom

CNSU

What could be the reason if the lub oil viscosity decrease?

**A** Diesel oil leakage to the lub oil system.

COHG

Pure Nitrogen is sometimes used to blanket sensitive cargoes because:

**A** All the mentioned alternatives





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

COHV	You have released the tug. To whom do you report when tugs are cleared?
A	To the Master
COJV	The human body needs a certain vitamin to get the full benefit from the mineral iron. Which vitamin assists the absorption of iron?
A	Vitamin C
COJV	The human body needs a certain vitamin to get the full benefit from the mineral iron. Which vitamin helps in the absorption of iron?
A	Vitamin C
COKQ	For passenger ships of 1000 gross tons and over, the availability of water for fire-extinguisher purposes shall be: (SOLAS II-2/4.3.4)
A	Immediate availability of water for at least one effective jet of water from any hydrant in an interior area
CONY	A satellite receives the transmissions of the 406 MHz Cospas-Sarsat EPIRB. The transmissions of the EPIRB will be:
A	always passed on to a LUT
COOQ	The volume button of a mariphone controls:
A	the volume
COVL	On gas carriers there are two gases we must try to avoid leaking out to the atmosphere, who are those gases?
A	The two gases is Freon 22 and carbon monoxide
COYW	Fixed pressure water-spraying fire-extinguishing systems are widely employed in all kinds of vessels, mainly passenger ships and ro-ro ships, with a high degree of success. The aim of these systems is to put out a fire but they may also be very useful even if they only ensure
A	all the answers are good
CPAK	If a double banking operation is being conducted with one ship at anchor (which is yawing due to weather condition) and one tug is available for assisting in the operation, the tug should:
A	Endeavour to hold the anchored/yawing vessel steady
CPAK	If a double banking operation is being conducted with one ship at anchor (which is yawing due to weather conditions) and one tug is available for assisting in the operation, the tug should:
A	Endeavour to hold the anchored/yawing vessel steady
CPDR	What precautions should be taken for the deck covering in a steering gear room?
A	Any of the listed alternatives.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CPDR

What precautions should be taken for the deck covering in a steering gear room?

- A** Coat the deck with non slip paint and use duck boards provided with drainage

CPDR

What precautions should be taken for the deck covering in a steering gear room where hydraulic oil is in use?

- A** Any of the listed alternatives.

CPDR

What precautions should be taken for the deck covering in a steering gear room where hydraulic oil is in use?

- A** Coat the deck with non slip paint and use duck boards provided with drainage

CPEQ

What is the meaning of the term "Range" of a transducer

- A** The difference between possible maximum and minimum measurement

CPIY

Under what circumstances would a British ship have to have a new measurement survey

- A** If any of the main registered particulars e.g. length were changed

CPKJ

By the degree of selectivity of a receiver is meant:

- A** ability to make weak stations audible

CPLH

Pursuant to which Act are the Regulations of 25 November 1989 concerning supervision of maritime service laid down?

- A** Act 18 June 1971 relating to enrolment of employees on board ships.

CPNV

The propagation of radio-signals in the VHF-band is:

- A** almost rectilinear

CQDW

What signal, if any, is specified in SOLAS as the "Abandon ship" signal?

- A** The "Abandon ship" signal is not specified, only the general emergency alarm signal is stated

CQHR

Which institution gives regulations concerning certificates of competency for marine deck and engineer officers?

- A** The Norwegian Maritime Directorate

CQUI

How often shall crew members participate in fire drills?

- A** Once every month



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- CQXU**                      Sounding pipes in the engine room are normally fitted with deadweight cocks and screw caps. Which of the following statements is correct?
- A**    Caps and cocks should be closed at all times, except when sounding tanks, to prevent
- 
- CQXU**                      Sounding pipes in the engine room are normally fitted with deadweight cocks and screw caps. Which of the following statements is correct?
- A**    Caps and cocks should be closed at all times, to prevent ingress of water into the engine room in case of tank bottom damage.
- 
- CQYK**                      What is "LENGHT OVERALL", in the figure?
- A**    Lenght overall is given by B on the figure
- 
- CRBD**                      If a distress signal is received on board your ship, what should be the first action that should be taken?
- A**    all of the alternatives together
- 
- CRBD**                      If a distress signal is received on board your ship, what should be the first thing you should do ?
- A**    all of the alternatives together
- 
- CRBD**                      If a distress signal is received on board your ship, what would you do ?
- A**    all of the alternatives together
- 
- CRBQ**                      Special types of periscopes are fitted to boilers to observe
- A**    Smoke going out the stack
- 
- CRCR**                      The VHF channels 15 and 17:
- A**    is intended for radio traffic onboard of the own ship
- 
- CRIL**                      Which one of the listed requirements regarding the construction of lifeboats do not correspond to present regulations? The lifeboat shall:
- A**    have permanent boarding arrangements on both sides to enable persons in the water to board the lifeboat
- 
- CRKY**                      When checking the zero point on a combustible gas indicator that is to be used to detect hydrocarbon gases in an empty cargo tank which method should be used from the options given?
- A**    Pass fresh air through the sample chamber.
- 
- CRQB**                      Epoxy coatings in tanks, which have been stressed beyond their chemical resistance during the carriage of strong solvents, tend to soften (you test for this with your nails or with standardised test pencils). If you encounter this condition you would:
- A**    Give the coating time to "weather out" the trapped solvents using good ventilation, and recover it's hardness again, prior loading the next cargo?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CRQT

Which device does this graphical symbol illustrate?

- A** Pressure to electric current converter.

CRRP

Which of the following is the definition of Segregated Ballast Tanks, as found on oil tankers?

- A** Check the ballast tanks for oil after the ballast tanks have been filled

CRTJ

In the Maritime Radio Traffic the order of priority is:

- A** Distress traffic, urgency traffic, safety traffic

CRUE

Which one of the listed requirements regarding lifeboat equipment do not correspond to present regulations? All lifeboat equipment shall:

- A** be made of fire-retardant material

CSFC

Which class of emission is used for ARQ NBDP transmissions ?

- A** F1B

CSGX

The INMARSAT M Mobile Earth Station Identification Number (IMN) consists of:

- A** nine digits, beginning by 6

CSOC

At sea red rocket signals are seen. This is not reported by radio. You have to begin the distress alert procedure via VHF with the term:

- A** MAYDAY RELAY

CSOE

During standstill liquid may condense in the crankcase or oil separator. Why is it important to heat up the oil before start?

- A** To avoid the compressor-oil to disappear from the crankcase during starting.

CTCN

How do You want to operate the purifier to obtain the best separation result?

- A** Separation with correct temperature and low flow rate.

CTDH

It is very important to follow a maintenance schedule. Why?

- A** To prevent serious damages on main components.

CTLR

You want to stop your ship as quickly as possible without too much change in the heading. What can you do to achieve this?

- A** Use the rudder hard over both sides while reducing engine power, so-called "high frequency rudder cycling"



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CTTE

What is the correct name of the part highlighted in the sketch?

**A** Crankshaft

CUAR

Why are crankcase heaters fitted to freon compressors?

**A** To prevent freon condensing when the compressor is stopped.

CUBK

What are the components of the personal equipment of the firemans outfit

**A** All the items mentioned

CUCF

How do you consider the indicated speed for berthing?

**A** - The approach speed is too fast. "I

CUCF

How do you consider the indicated speed for berthing?

**A** Too fast

CUCG

\*Where would you find out which fire sections are enclosed by "A" or "B" class divisions?

**A** On the fire control plans

CUCJ

This circuit consists of two resistances,  $R_1 = 6 \text{ ohm}$  and  $R_2 = 12 \text{ ohm}$ , connected in series. Calculate the equivalent resistance  $R(S)$ .

**A**  $R(S) = 18 \text{ ohm}$

CUCJ

This circuit consists of two resistances,  $R_1 = 6 \text{ ohm}$  and  $R_2 = 12 \text{ ohm}$ , connected in series. Calculate the equivalent resistance  $R(S)$  of the two resistances.

**A**  $R(S) = 18 \text{ ohm}$

CUFX

A transformer with 10:1 turns ratio and rated 50 kVA, 2400/240 Volts, 60 Hz, is used to step down the voltage to a distribution system. The low tension voltage is to be kept constant at 240 Volts. What load impedance connected to the low-tension side will cause the transformer to be fully loaded?

**A** 1.15 Ohms

CUYC

Generally vertical mounted pumps are used in ship engine rooms. Is it because of:

**A** Floor space is usually more valuable than height.

CVAP

What should be applicable to tank cleaning operations by means of circulation products with low flash products (below  $60^\circ \text{C}$ ) ?

**A** It should be avoided, unless the tank atmosphere is inerted.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CVNA	*Which of the following spaces may be protected by a fixed high expansion foam fire-extinguishing system?
A	All the spaces mentioned
CVOV	What is the gas releasing device allowed for a CO2 fixed fire-extinguishing installation?
A	A manually operated release system only
CVTQ	When steering by autopilot, how often should manual steering be checked?
A	At least once a watch
CVTV	When data are to be transferred over telephone lines, we often utilize modem at each end. Which of the following adapter cards (parts) will you use for interfacing a modem to a computer?
A	Serial adapter
CVXD	An electrical power emergency source in a ship is required because:
A	It satisfies the SOLAS (and other) requirements for ship safety
CVXD	An electrical power emergency source in a ship is required because:
A	It satisfies the SOLAS requirements for ship safety
CVXG	You have a leak cylinderlier ( poor O -rings on a water cooled compressor). Where is the leaking water most likely to go when the compressor is running?
A	Into the crankcase and mix with the lube oil.
CVXY	You are meeting with another ship in confined waters. What can happen as the ships approach each other?
A	The bows of the ships will be pushed away from each other
CVYY	What is a PH scale?
A	Method to measure alkalinity and acidity.
CWBD	How would you know how many people a lifeboat is supposed to hold?
A	The number of persons should be clearly stated on the outside of the boats bow.
CWNW	Why do many engine makers recommend to grind the valve spindle sealing surface with a half degree difference to the valve seat?
A	To improve the sealing surface between valve and seat during operation of the engine (compensate for the bending of the valve disc caused by combustion pressure)



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CWOQ

The Chloride level in a cooling water system should be:

- A** As low as possible.

CWTR

Cleaning has certain safety aspects, among other things which?

- A** Fire is easily spread in dust and trash and wet floors may cause different accidents.

CWTT

The rule for having a radio transmitter license is internationally laid down in:

- A** Radio Regulations

CWVH

What is the procedure when connecting portable cleaning machines :

- A** Connect to the hydrant before lowering the machine into the tank.

CWWY

Which body can carry out surveys on behalf of the MCA?

- A** MCA, Lloyds Register, Bureau Veritas, Det Norske Veritas, American Bureau of Shipping, Germanischer Lloyd, Registro Italiano Navale

CXDQ

Why are crankcase heaters fitted to freon compressors?

- A** To prevent freon condensing when the compressor is stopped.

CXJR

Why does a ship move laterally (sideward drift) when turning.

- A** Because the pivot point is not at the centre of the ship

CXSS

Your vessel is going alongside a pier. Two tugs will assist at the mooring. How would you use the tugs, and at which position?

- A** Pushing on ship's flat side and make fast in the vessel for pulling if needed

CXSS

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CXSS

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- A** Pushing on the ship's side and made fast in case the vessel's movement towards the berth requires reducing by the tug pulling off.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CXXR

What data is at least requested in a DSC “distress alert” ?

- A** the identification of the vessel in distress and her position

CYGF

Which of the following is a requirement on an oil tanker before entering any enclosed area containing inert gas generating equipment?

- A** The atmosphere should be gas free and contain at least 21% oxygen.

CYGF

Which of the following is a requirement on an oil tanker before personnel enter any enclosed area containing inert gas generating equipment?

- A** The atmosphere should be gas free and contain at least 21% oxygen.

CYGF

Which of the following is a requirement on an oil tanker before personnel enter any enclosed area which contains inert gas generating equipment?

- A** The atmosphere should be gas free and contain at least 21% oxygen.

CYGG

What separation temperature is recommended for lubricating oil of a trunk piston engine operating on HFO

- A** 95 Celsius

CYHA

In a purifier assuming the separating temperature is correct, what is probably wrong if processed oil contains water

- A** Gravity disc is too small. Flow rate is too high

CYHA

In a purifier assuming the separating temperature is correct, what is probably wrong if processed oil contains water

- A** The gravity disc is too small and/or the flow rate is too high

CYHA

In a purifier assuming the separating temperature is correct, what is the probable cause of the processed oil containing water?

- A** Gravity disc is too small. Flow rate is too high

CYHA

In a purifier assuming the separating temperature is correct, what is the probable cause of the processed oil containing water?

- A** The gravity disc is too small and/or the flow rate is too high

CYJI

The main reason for the use of cylinder oil is to:

- A** Lubricate the piston rings.

CYKL

After cleaning any equipment using gas oil/diesel then using compressed air from the ships service air supply to blow the oily residues from the equipment, should you:

- A** Cover all exposed parts of the body, protect the area, move people and if possible use a compartment with extraction fans:





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

CYVA

Generally vertical mounted pumps are used in ship engine rooms. Is it because of:

**A** Floor space is usually more valuable than height.

DABD

A distress-call, onboard via RCC, may only be given Receipt if:

**A** the O.O.W deems it necessary

DABI

Which of the following kinds of fish is least perishable in cold storage?

**A** Mackerel

DADR

What could be the reason if the lub oil viscosity increase?

**A** Fuel oil leakage into the lub oil system

DADR

What could be the reason if the lub oil viscosity increase?

**A** Heavy fuel oil leakage to the lub oil system.

DADV

\*What quantity of service fuel must be available for a diesel driven emergency pump before it is necessary to use any reserve fuel?

**A** To allow at least 3 hours of operation

DAPI

What is the general emergency alarm signal as specified in SOLAS?

**A** Seven or more short blasts followed by one long blast

DAQE

How many buoyant smoke signals are carried in each lifeboat?

**A** 2

DAVJ

In a Type "1" Chemical tanker (one that is certified to carry the most hazardous chemicals) the maximum amount of cargo contained in any one tank must not exceed:

**A** 1250 m3

DAYP

When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger ships, what is the maximum time allowed for equalization?

**A** 15 minutes

DBBK

\*What is the minimum capacity of the portable tank of a portable foam applicator ?

**A** 1 litre



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DBOR

\*Which one of the following items has to be included in an abandon ship drill?

- A** summoning of passengers and crew to muster stations with the alarm required

DBRD

In the chemical trade the acceptable means of cargo line segregation in case of two non-compatible products is:

- A** By double blank flanges with a drain between them?

DBSU

On the figure there are four (4) possible definitions of the term "BOLLARD" given. Which one is the correct one?

- A** Bollard is given by D on the figure

DBUF

\*How many thermal protective aids are carried in each liferaft?

- A** 10% of the number of persons the liferaft is designed to carry, or two, whichever is the greatest

DBWC

MARPOL 73/78 - Annex IV. Your ship has in operation an approved sewage treatment plant certified by the Administration. During discharge, while vessel is awaiting pilot off Cape Henry, USA, the surrounding water is discoloured. What kind of action would be appropriate to take?

- A** Stop discharge.

DBXA

In the event of a severe scavenge fire, which of the following is most likely to be seriously damaged?

- A** Piston rod and stuffing box.

DBXA

In the event of a severe scavenge fire, which of the following is most likely to be seriously damaged?

- A** Stuffing box.

DCAJ

Which of the following statements is correct

- A** The dispersing additives in lubricating oil, break up the contaminants in even smaller particles and keep them in suspension

DCJM

Give the meaning of the following symbol

- A** Space protected by foam

DCKH

During ship to ship transfer, if each hose used has a bore size (diameter) of 300 mm, the throughput per hour of liquid (for each hose) is recommended as a maximum of:

- A** 3150 m<sup>3</sup> per hour.

DCLC

What is the correct definition of "gangway"?

- A** Portable bridge between ship and shore.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DCQB** On the figure there are four possible definitions of the term "STARBOARD BOW" given. Which one is the correct one?
- A** Starboard bow is given by A on the figure
- 
- DCQC** Give the meaning of the following symbol:
- A** muster station
- 
- DCQD** Some engine makers use a copper casket for proper sealing between fuel injector valve, cylinder head and combustion chamber. Why is it so important to use the correct one?
- A** To keep the valve in correct position and to maintain proper sealing.
- 
- DCSL** What is the correct understanding of the term "a ship with good Directional Stability"?
- A** When you put rudder amidships, she will continue on a straight course
- 
- DCSN** To whom does the requirement as to knowledge of English apply?
- A** Seafarers employed or engaged on board ship on the business of that ship as part of the ship's complement with designated safety or pollution duties
- 
- DCVC** If fax messages or data messages are sent from and to an Inmarsat-A terminal it is recommended to use:
- A** uncompanded channels
- 
- DCXP** When all initial checks have proved satisfactory and you are starting a flue gas plant on an oil tanker, which of the following steps will be the first in the operation sequence?
- A** Open the flue gas isolating valve
- 
- DDGB** Which one of the listed requirements regarding radiotelegraph installations do not correspond to present regulations?
- A** The installation shall include equipment for radiotelephone communication on distress frequencies in addition to working frequencies
- 
- DDIQ** A lifejacket must not sustain burning or continue melting after being totally enveloped in a fire for a period of:
- A** 2 sec
- 
- DDMT** Which one of the listed requirements regarding partially enclosed lifeboats do not correspond to present regulations? The canopy between rigid covers shall be so arranged that:
- A** it has windows to admit sufficient daylight inside the lifeboat with the canopy closed
- 
- DDNQ** What will you do if the heat transfer capacity is dropping, and we know that flow and heat energy corresponds to the specifications?
- A** Clean the heat exchanger.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DDNQ

What will you do if the heat transfer capacity is dropping, and we know that flow and heat energy corresponds to the specifications?

- A** Use the "cleaning in place" arrangement to open the heat exchanger for visual inspection and manual cleaning.

DDTI

Regular 'updating' of a vessel's position in an Inmarsat-C installation is among other things of importance:

- A** to exclusively receive MSI-reports meant for the NAVAREA where the vessel is

DECL

Generators work on the principle of electromagnetic induction. The internal e.m.f. generated in the phase windings of an a.c. generator is controlled by:

- A** The diesel speed and excitation current.

DECM

You are in charge of loading a product tanker equipped with segregated ballast tanks, SBT. How can you find out if there is a leakage between the cargo and ballast system?

- A** Check the cargo tanks for water prior to loading

DEJE

International regulations require that a minimum pressure of Inert Gas is maintained at all times in slop tanks if slops are retained onboard an oil tanker. Which of the following is that minimum requirement?

- A** 100 mm/water gauge.

DENE

What should be the first action taken in the event of a liquefied gas jet fire onboard an LNG carrier?

- A** To isolate the fuel source before extinguishing the flames on a gas fire

DENE

What should be the first action taken in the event of a liquefied gas jet fire onboard an LPG carrier?

- A** To isolate the fuel source before extinguishing the flames on a gas fire

DERP

What kind of measure is the division of the vessel in upright areas by using thermic and structural separations?

- A** It is both a prevention and protection measure

DEVQ

What is the most common fixed fire fighting extinguishing system fitted in an engine room?

- A** A carbon dioxide (CO<sub>2</sub>) system

DFCK

You have loaded a cargo of n-Propyl Acetate to all tanks. They are each loaded to around 98% capacity. You now have to clear the lines into the ship. What is the biggest risk associated with this operation?

- A** There must always be one man on the ship's manifold, operating the manifold valve in order to avoid too much pressure raise in the tank.

DFCK

You have loaded a cargo of n-Propyl Acetate to all tanks. They are each loaded to around 98% capacity. You now have to clear the lines into the ship. What is the principal risk in this operation?

- A** There must always be one man on the ship's manifold, operating the manifold valve in order to avoid too much pressure raise in the tank.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DFDI** When you join a new ship, how are you informed about safety rules, alarm instructions and your own duties in case of an emergency?
- A** By muster lists exhibited in conspicuous places
- 
- DFHM** This circuit symbol is an amplifier system and its frequency response diagram. Which control function is the system performing?
- A** Proportional + integral (PI)
- 
- DFHM** This circuit symbol is an amplifier system and its frequency response diagram. Which of the following control functions is the system performing?
- A** Proportional + integral (PI)
- 
- DFLS** A DSC distress alert is received. The message states that communication by radiotelex is preferred. One preferably uses:
- A** FEC mode
- 
- DFMI** A chemical tanker will carry cargoes of ethanolamine, methyl acrylate, and glycerine. Which statement is true?
- A** Glycerine is compatible with both of the other cargoes.
- 
- DFPX** A fire bulkhead of the "C" class must be constructed of:
- A** Non-combustible material
- 
- DFQS** What are you going to measure regarding oxygen content and hydrocarbon gas content before any permits are issued and entering is allowed?
- A** 21% oxygen by volume and 0% hydrocarbon of LEL.
- 
- DFSN** Which of the following is allowed as a fire-extinguishing medium for fixed gas fire-extinguishing systems aboard ships?
- A** Carbon dioxide
- 
- DFTX** \*What is the minimum quantity of carbon dioxide that can be released by a fixed carbon dioxide system to extinguish a fire in a ro-ro space capable of being sealed?
- A** 45% of the total volume of the space
- 
- DFXE** Which type of temperature sensor is used in this temperature measuring system?
- A** Thermocouple sensor
- 
- DFXE** Which type of temperature sensor is used in this temperature measuring system shown?
- A** Thermocouple sensor



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DFXG** In a PID controller it is possible to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to a step input, if the variables are well adjusted.
- A** Figure 2.
- 
- DFXG** In a PID controller it is possible to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to change in input, if the setting of the rate time is too short.
- A** Figure 2.
- 
- DFYB** What are the three diameters of fire hoses most commonly found on ships?
- A** 25, 45, or 70 mm
- 
- DFYE** What are the advantages of having mooring wires stowed on self-stowing "split drum" winches?
- A** All the listed alternatives
- 
- DFYJ** You are on board a ship which is not specially fitted for navigation in cold regions. At what ambient temperature should the engine of the lifeboat \*start within less than 2 minutes ?
- A** until - 15°C
- 
- DGGM** What are the characteristics of CO<sub>2</sub>?
- A** All the mentioned alternatives.
- 
- DGII** What is the meaning of this symbol ?
- A** Lower lifeboat to water
- 
- DGKR** Indicate the correct name for the tool on the sketch:
- A** Adjustable wrench
- 
- DGLL** The boiler has been shut down completely for inspection and repair. You have finished work and are going to start firing the boiler. What is the correct procedure for heating a boiler from cold?
- A** Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals.
- 
- DGRI** How many two-way VHF's is required for ships over 500 brutto?
- A** 3 sets
- 
- DGRI** How many two-way VHF's is required for ships over 500 GRT?
- A** 3 sets



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DGRL** Your vessel is moving in Panama Canal waters. When must the master or his qualified representative be on the bridge?
- A** At all times
- 
- DGRN** An earth fault exists on the blue line of a 100 A bilge pump circuit. A second earth fault occurs on the yellow line of a 10 A ventilation fan circuit. Both systems are supplied from the ships 440V supply. The likely outcome is that:
- A** A short circuit occurs between earth faults and the ventilation fan fuse blows
- 
- DGRN** An earth fault exists on the blue line of a 100 A bilge pump circuit. A second earth fault occurs on the yellow line of a 10 A ventilation fan circuit. The likely outcome is that:
- A** A short circuit occurs between earth faults and the ventilation fan fuse blows
- 
- DGTC** What is an effective means of measuring the total dissolved solids in boiler water?
- A** Conductivity test.
- 
- DGTV** What signal may be given by sound and by light to indicate that a vessel fails to understand the intentions or actions of another vessel, or is in doubt that sufficient action is being taken by the other to avoid collision?
- A** Two prolonged blasts on the whistle at intervals of not more than two minutes
- 
- DGXC** The muster list shall show the duties assigned to the different members of the crew. Which of the given duties do not necessarily have to be included in the muster list?
- A** Clearing escape routes
- 
- DGXC** The muster list shall show the duties assigned to the different members of the crew. Which of the given duties necessarily have to be included in the muster list?
- A** Clearing escape routes
- 
- DGXD** What does LEL mean?
- A** Lower explosive limit.
- 
- DGXM** Which type of call will be sent by a ship sighting containers adrift in vicinity of her position ? (No message about this problem was previously transmitted via NAVTEX or INMARSAT C SAFETYNET)
- A** Safety call
- 
- DHIB** When ordering foam for restocking of the foam tanks on a Chemical Tanker, and regular protein foam is offered, you would:
- A** Reject it?
- 
- DHJB** Two alternators operating in parallel at 75% load capacity, but then one of them trips without any warning. What is the first action that should be taken?
- A** Trip/stop all nonessential loads that are connected to the switchboard



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DHKT

\*Which of following items shall be included in an abandon ship drill?

- A** summoning of passengers and crew to muster stations with the alarm required

DHNG

The picture shows a common used 3,5 inches diskette type for storing data. What is the data storing capacity for such diskette?

- A** 1.44 MB

DHPR

On the figure there are four (4) possible definitions of the term "STARBOARD QUARTER" given. Which one is the correct one?

- A** Starboard quarter is given by C on the figure

DHUV

Which item among those below is included in the normal equipment of every rescue boat ?

- A** a painter attached to the release device and placed at the forward end of the boat

DIEP

What special safety measures are required by a seaman when working aloft on a stage?

- A** Harness with a rope secured to a safe point on the ship.

DIHC

What is the most probable place that any oil will flow over the ships side in case of an overflow during loading/discharging?

- A** Aft part of the tank-deck

DIKM

Most of the engine makers recommend to change the cylinder head gaskets each time a piston overhaul is carried out. Why?

- A** To obtain a proper sealing and correct distance between piston and cover in TDC position.

DIKP

The thermal insulation provided to the wearer of an anti-exposure suit is sufficient to ensure that the wearers body core temperature does not fall at a rate of more than:

- A** 1.5°C per hour after the first 0.5h immersion in calm water at a temperature of 5°C

DIKR

In terms of instrumentation and measurement, what is an I/P Transducer?

- A** A transducer that converts a known electric current to a pressure proportional to the

DIKR

In terms of instrumentation and measurement, what is an I/P Transducer?

- A** A transducer that converts a known electric current to a pressure proportional to the current.

DIUH

Many modern large slow speed diesel engines used for main propulsion operate with a so called constant pressure turbocharging system. What is meant by constant pressure when used to describe such a turbocharging system?

- A** Pressure variations at the turbocharger inlet are damped out due to the large volume of





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DIUH** Many modern large slow speed diesel engines used for main propulsion operate with a so called constant pressure turbocharging system. What is meant by constant pressure when used to describe such a turbocharging system?
- A** Pressure variations at the turbocharger inlet are damped out due to the large volume of
- 
- DJDA** Who is responsible for keeping documentation of the qualifications required for personnel on board?
- A** The ship's master
- 
- DJDV** In relation to exhaust gas measurement with a thermocouple, use of an amplifier which gives a mA-signal out is preferred. Why is this done?
- A** The signal out from a thermocouple is mV, and can not be transferred over any longer distance without loss of voltage, giving a very bad accuracy.
- 
- DJFM** You are going to start firing a boiler. Which of the below mentioned alternatives do you consider as most important?
- A** A thorough ventilation of the combustion chamber before the ignition takes place.
- 
- DJGL** In a fresh water tank with a height of 5 meters we shall use a pressure transmitter for level measurement. The tank has a vent-pipe leading to deck 8 meters above the top of the tank. What pressure shall we use as a guidance when ordering the pressure transducer?
- A** 1,3 Bar.
- 
- DJGL** In a fresh water tank with a height of 5 meters we shall use a pressure transmitter for level measurement. The tank has a vent-pipe leading to deck 8 meters above the top of the tank. What pressure shall we use as a guide when ordering the pressure transducer?
- A** 1,3 Bar.
- 
- DJJP** Which among the following list is particularly required for a totally enclosed lifeboat ?
- A** safety belts to be designed to hold a person of 100 kg securely in place with the lifeboat in a capsized position
- 
- DJQG** Which of the following detailed explanations should be mentioned in the Training Manual ?
- A** How to muster at the assigned stations
- 
- DKKG** What does crude oil consist of?
- A** A combination of hydrocarbons.
- 
- DKQF** Anyone of the crew who is assigned to watch duties in port has a number of important tasks to carry out. Which one of the listed tasks should be included in the watchmans duties?
- A** Checking the moorings for tightness/slack.
- 
- DKQF** Anyone of the crew who is assigned to watch duties in ports has a number of important tasks to carry out. Which one of the listed tasks has to be included in the watchmans duties?
- A** Checking the moorings for tightness/slack.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DKWO** A simple level control for a water tank consists of a horizontal lever with a float at one end and a filling valve at the other. The lever is provided with an adjustable pivot positioned between the valve and the float. How will the offset in the system be affected under changing demand conditions if the pivot is
- A** It will increase the offset across the demand range.
- 
- DKVV** Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?
- A** The entering permit shall be based on the check-list for gas freeing and check-list for equipment and preparedness.
- 
- DKXP** Give the meaning of the following symbol
- A** Survival craft distress pyrotechnic signals
- 
- DLCB** Define the class of emission F1B :
- A** Radiotelex and DSC - Frequency shift keying of carrier with error correction
- 
- DLDN** What is a "Rescue Unit" (RU)?
- A** A unit composed of trained personnel suitable equipped for expeditious search and rescue operations.
- 
- DLGB** Notices to all vessels of a certain shipping-company are sent via the Inmarsat by an EGC-service. This EGC-service is called:
- A** FleetNET
- 
- DLGY** A DSC-notice should be sent on VHF-channel:
- A** 70
- 
- DLJM** How often must a certificate of Competency be re-validated?
- A** Every 5 years
- 
- DLNN** What pressure is present in the crankcase of a vapour compression refrigeration compressor?
- A** The same as suction pressure.
- 
- DLNN** What pressure is present in the crankcase of a vapour compression refrigeration compressor?
- A** The same as the suction pressure
- 
- DLVY** What does VLCC mean?
- A** Very large crude carrier.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DMAY

What would the Master require of the Chief Officer?

- A** The Second Officer would tell the master the visibility had reduced to probable range of 2 miles and the engines were on standby.

DMDI

\*What type of fire integrity must be provided for an engine control room ?

- A** A 60

DMFA

\*Where would you find out which fire sections of the ship are enclosed by "A" or "B" class divisional bulkheading?

- A** On the fire control plans

DMGW

What type of pump of the below mentioned would be most suited for serving as a high pressure boiler water feed pump?

- A** Multistage centrifugal.

DMKV

What is a "Mates Receipt"?

- A** A receipt issued by the Chief Officer, stating quantity and condition of goods loaded onboard?

DMUE

Which of the following equipments doesnt transmit the MMSI of the ship

- A** SART transponder

DMVB

Which of the following fittings shall be provided to all lifeboats:

- A** skates and fenders to facilitate launching down the side of a ship

DNJE

For how long time should a SART transponder be able to operate in the active mode ?

- A** 8 hours

DNKB

Oily rags and metal twist pose a particular fire hazard because:

- A** They are liable to spontaneous combustion.

DNLN

What is the effect of the I (integration) function of a controller

- A** It will try to reduce the deviation between set-point and process value

DNLN

What is the effect of the I (integration) function of a PID controller

- A** It will try to reduce the deviation between set-point and process value



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DNLN

What is the effect of the I (integration) function of a PID controller?

- A** It will try to reduce the deviation between set-point and process value

DNNI

Which of the following is typical for a feed-forward control system

- A** We are controlling the process inlet side

DNNI

Which of the following is typical for a feed-forward control system?

- A** We are controlling the process inlet side

DNOC

Gas welding is carried out in the work shop. Prior to lunch break the following precaution is carried out:

- A** The main supply valves in the deck storage are closed and checks made that no fire risk

DNOC

Gas welding is carried out in the work shop. Prior to lunch break the following precaution is carried out:

- A** The main supply valves in the deck storage are closed prior to switching to UMS-mode

DNSL

How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

- A** Weekly

DNSN

What are the average maximum working hours which may not be exceeded, in a year on NIS-ships?

- A** 2912 hours

DOAB

Which one of the listed radio distress frequencies is reserved for survival crafts?

- A** 8364 kHz

DOBR

What is the minimum number of independently driven fire pumps that must be provided on passenger ships of 4000 GRT and above?

- A** 3

DOBS

A "Standard Format for Search and Rescue Situation Reports" (SITREPs) should be used by vessels in distress. The SITREP can be compiled as a short form (urgent essential details). Which of the following information shall be included when using the "short form"?

- A** Weather on-scene.

DODH

\*What is the correct procedure to extinguish a soot fire in the exhaust boiler?

- A** Reduce speed and use soot blowers if some are fitted



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DOFY

Which of the following is NOT required to be in the oil transfer procedures?

- A** The location and capacity of all fuel and cargo tanks on the vessel

DOGT

How many firemans outfits are to be carried by tankers? (SOLAS II-2/17.3.1.2)

- A** At least four sets

DOHO

MARPOL 73/78 - Annex I. Your vessel sailed from Bahrain heading for Singapore. 2 days after departure, you like to empty your machinery space bilges. What will be the correct procedures in this connection?

- A** Call the bridge and request for position and permission to discharge overboard through oilywater separating and filtering equipment.

DOKA

Which item among those below is included in the normal equipment of every liferaft ?

- A** one boat-hook

DOOF

The wavelength of a radio-signal reflected against the F-layer may be:

- A** 15 m

DOOU

Give the meaning of the following symbol:

- A** immersion suit

DOPY

Is there any requirements regarding crew's language skills?

- A** Yes, all crew must be able to communicate on the language spoken by the majority of the passengers, or demands set by the company.

DOTF

What additional emergency equipment must be tested during abandon ship drill

- A** Emergency lighting

DOWR

How many thermal protective aids are required to be carried on vessels with open lifeboats?

- A** One for each person on board who is not provided with an immersion suit

DPAO

What is meant when a vessel is said to have sinkage?

- A** Sinkage is the change in draft a vessel obtains when moving through the water.

DPEX

Moored in a harbour, transmitting with a mariphone is:

- A** always allowed



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DPHL

What details are recorded in section ALC 1a of the Crew Agreement?

- A** Name of every crew member, reference number, name of last ship, home address, next of kin, date of signing agreement, date of discharge

DPMI

Which of the following factors affect the separation process

- A** Density, viscosity, flow rate, temperature, gravity disc diameter

DPOW

When must personal protective equipment be worn

- A** At all times when identified as a control method with risk assessment

DPWH

Severe pains in the chest occur when the coronary arteries, which supply blood to the heart, become too narrow for sufficient oxygenated blood to reach the muscles of the heart. Normally these attacks only last a few minutes, and the pain stops if the casualty rests. What kind of medicine to be taken when an

- A** Nitro glycerine tablets.

DPYV

\*When is a locker considered as a high risk service space?

- A** when its area is of 4m<sup>2</sup> or more

DQAI

Define the class of emission J3E :

- A** Radiotelephony - Single sideband suppressed carrier

DQEU

The exact position of a 406 MHz Cospas-Sarsat EPIRB is eventually calculated by:

- A** LUT

DQIC

For whom does the qualification requirements apply?

- A** For personnel assigned to shipboard duties.

DQKN

\*In which one of the following an oil, the flash point of which only needs to be over 43°C, may be used?

- A** In emergency generators

DQSB

The ship is starting to slow down after steaming at full ahead speed. What will happen to the position of the "pivot point"?

- A** It will move aft as the ship slows down

DQSH

On oil tankers, Cargo tanks can not be isolated from machinery spaces by:

- A** All the answers are good



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DQUJ** What would you do if you after starting the separator discovered that the settling tank was full of water
- A** Stop the separator and drain the water from the tank
- 
- DQUN** How many Working Environmental committee members should be elected on a ship with a crew of 13 members?
- A** 1 member
- 
- DQUP** After obtaining permission from the duty Deck Officer, under what conditions would the process of sootblowing the boiler tubes be most beneficial?
- A** When the boiler is firing on high rate.
- 
- DQVH** What is the most common signal level from an I/P converter?
- A** 4-20mA/3-15 PSI
- 
- DQVN** A Cargo Ship Construction Certificate will be issued for :
- A** A period not exceeding 48 months
- 
- DQVN** A Cargo Ship Construction Certificate will be issued for:
- A** A period not exceeding 48 months
- 
- DQWG** You have just discharged a Category "A" chemical cargo and are making the first wash of the tank that had contained it. The washing contain a chemical residual concentration of over 0.1% by weight. You can:
- A** Discharge the washing to shore reception facilities only?
- 
- DRHE** The end covers for a heat exchanger are held in place by a number of brass studs and nuts. Which of the tools given in the options is best suited for removal and tightening of the nuts?
- A** Ring spanner or socket.
- 
- DRIU** What is the minimum necessary condition for the start and permanence of an oil fuel fire?
- A** The temperature is equal to or over the flash point
- 
- DRKO** What would you suspect has happened if the lubricating oil for an air compressor has a milky white appearance?
- A** Change the lube oil.
- 
- DRKO** What would you suspect has happened if the lubricating oil for an air compressor has a milky white appearance?
- A** Water contamination of the oil.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DRKP

What is the correct PH-value for the Boiler Water?

**A** 8,3 - 9.

DRMB

Who is the leader of the lifeboat drill (abandon ship drill)?

**A** The appointed lifeboat commander

DRMV

You are proceeding along a narrow channel and approaching a bend, on the inside shore of which is a large hill, which obscures your view further up channel. What sound signal will you make to indicate your presence to any vessel that is behind the obstructing hill?

**A** 1100

DRV C

On area A3 the function " Reception of shore to ship distress alerts" is mainly based on:

**A** the use of HF DSC and INMARSAT C SAFETYNET

DRYM

In a fuel oil separator liquid flows out through bowl casing drain and/or sludge outlet. What is the reason to this?

**A** Any of the others.

DSIQ

If you are called upon to reeve a new wire onto a self-stowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:

**A** Direction B

DSIQ

If you are called upon to reeve a new wire onto a selfstowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:

**A** Direction B

DSIY

What is the status on Suez canal pilots?

**A** Pilotage is compulsory and the pilot is only the master's advisor

DSML

How would pirates attacking a ship be communicated to another ship?

**A** "My ship is under attack by pirates"

DSPL

Define the class of emission H3E :

**A** Radiotelephony - Single sideband full carrier

DSVC

Before leaving the machinery spaces of a UMS vessel whose engine room is covered by a fixed CO2 installation, should the duty engineer:

**A** Ensure all doors are in closed position





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- DSVC** Before leaving the machinery spaces of a UMS vessel whose engine room is covered by a fixed CO2 installation, should the duty engineer:
- A** Ensure all doors are in closed position.
- 
- DSVC** Before leaving the machinery spaces of a UMS vessel whose engine room is protected by a fixed CO2 installation, should the duty engineer:
- A** Ensure all doors are in closed position
- 
- DSVC** Before leaving the machinery spaces of a UMS vessel whose engine room is protected by a fixed CO2 installation, should the duty engineer:
- A** Ensure all doors are in closed position.
- 
- DSYM** Several cargoes require determination of pH values (acidity) which is often a measure of quality or degradation of cargo such as animal or vegetable oil during transport. A neutral solution has a pH value of:
- A** 7
- 
- DTBA** For how long time shall the Oil Record Book be retained onboard?
- A** Three years after the last note was made
- 
- DTBG** These circuits are all active filters. Which of the circuits is a low-pass filter?
- A** Figure 2
- 
- DTEH** What is the primary purpose of an Accumulator in a hydraulic circuit associated with cranes?
- A** To store quantities of oil at working pressure on the discharge side of a pump and smooth out any pressure fluctuations.
- 
- DTHW** The positions of the ship provided by the GPS should always be confirmed by other means, when possible. Which of the following suggested methods would be the most accurate?
- A** Fixed known objects on the shore
- 
- DTIR** If you have to carry out hot work close to a smoke detector in the engine room, what precautions should be taken?
- A** Notify Master, Deck officer and engineer in charge. The loop for this special sensor to be switched off and take normal precautions for hot work.
- 
- DTRU** With what system is a NAVTEX-message transmitted?
- A** FEC
- 
- DTSU** How do You want to operate the purifier to obtain the best separation result?
- A** Separation with correct temperature and low flow rate.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DUAG

What is a demand when carrying Diethyl Ether ?

- A** Pressure-relief valve setting should not be less than 0.2 bar for gravity tanks.

DVGA

The engine RPM drops because of:

- A** Faulty governor.

DVHQ

On a Chemical Tanker suitable for carrying "special requirement" cargoes as per Chapter 15 of the IBC Code, such as Acrylonitrile, (most Chemical Tankers are), it is required that in addition to the SCBA sets used for firefighting, 3 additional SCBA sets (+ protective clothing) are carried for use in entering gasfilled

- A** At least once every month by a responsible officer and once every year by an expert?

DVUW

In case of diesel driven fire pumps, for how long period shall the fuel tank capacity allow the pump to be run at full capacity? (SOLAS II-2/4.3.3.2.3)

- A** Three hours

DVUW

In case of diesel driven fire pumps, for how long shall the fuel tank capacity allow the pump to be run at full capacity? (SOLAS II-2/4.3.3.2.3)

- A** Three hours

DWBT

If oil flows out of the bowl casing drain of a solids ejecting separator what is the most likely problem

- A** Insufficient amount of bowl closing water

DWFA

Name three international conventions that cover the international shipping trades?

- A** The three international conventions that cover the shipping trade is SOLAS 74/78, STCW 78/95 and MARPOL 73/78

DWGW

Cargo tanks with which of the following line type can be used for the carriage of Propylene Oxide ?

- A** Steel or stainless steel.

DWKU

The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

- A** Use protective equipment where necessary.

DWOF

When we are measuring viscosity with a restricted flow viscometer, the name of the sensing device is:

- A** Capillary tube

DWOF

When we are measuring viscosity with a restricted flow viscometer, the preferred sensing device is:

- A** Capillary tube



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

DWPW

You are on a vessel 15 nautical miles off the coast of Nigeria, West Africa. Are you allowed to dump food waste overboard?

**A** Yes, all kind of food waste can be dumped overboard

DWRP

Your vessel is sailing tours, calling at ports in Japan, South Africa, the USA and Europe. Where would you make your main purchase of provisions and stores for the entire trip?

**A** Rotterdam, the Netherlands

DWYY

What is the meaning of this symbol ?

**A** Lower lifeboat to water

DXBP

What is the definition of "clingage"?

**A** Fixed CO2 fire-extinguisher system

DXLK

Where is the International Shorecoupling to be stored?

**A** Easy accessible by the gangway

DXND

In maritime radio traffic sea area A1 is considered a sea area which:

**A** is within radio traffic range of at least one VHF- coast station where continuous DSC-alerting is available

DXRL

Which one of the listed requirements regarding lifejackets do not correspond to present regulations? (SOLAS III/32) A lifejacket shall be so constructed that:

**A** it allows the wearer to jump from any height without injury and without damaging the lifejacket

DXUT

How often must a crew member participate in a fire drill?

**A** Once every month

DYBF

The purpose of the surface blow valve is to

**A** Remove any oil or scum on water surface

DYCH

An enclosed lifeboat is fitted with a self-contained air support system. With the engine running, what is the minimum period of time the air should remain safe and breathable?

**A** 10 minutes

DYHB

Which shipboard equipment will detect a signal from a SART?

**A** S-Band Radar.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- DYHF** Following replacement of a diesel alternator governor the machine is test run on load. It is found that as the load is gradually increased the voltage and the frequency gradually fall to an unacceptable level. The governor is a mechanical hydraulic type. Select from the options given the correct adjustment to make to
- A** The governor droop should be reduced.
- 
- DYHH** How many grams of pure boneless beef would you calculate per person for hot dishes/roasts?
- A** 200 gr
- 
- DYIY** What are the responsibilities of a watch-keeping engineer?
- A** To by-pass, adjust and isolate all machinery that is to be worked on under his supervision.
- 
- DYIY** What are the responsibilities of a watch-keeping engineer?
- A** To inform the Chief Engineer of any situations that cannot be controlled during the watch
- 
- DYLL** How will you start a cancelling message after you send by mistake a distress call on your VHF DSC equipment
- A** All Stations - This is "SAINT-ROMAIN"
- 
- DYOS** The following DSC-message was received:(see original )The nature of the distress is:
- A** unknown
- 
- DYSA** Which types of compressors are utilised as cargo handling compressors on gas carriers?
- A** The types of compressors are piston, screw or centrifugal type
- 
- EAAC** Which of the following fittings shall be provided to all lifeboats:
- A** arrangements for providing an adequate view forward, aft, and to both sides
- 
- EAHL** You just have thrown an inflatable liferaft overboard from your vessel. The liferaft was stowed at a distance of 10 metres above the waterline (light condition). What minimum length of painter will you have to pull out in order to get the liferaft inflated (N.B.: The inflation of the liferaft takes place once the whole
- A** 20 metres
- 
- EAHL** You just have thrown an inflatable liferaft overboard from your vessel. The liferaft was stowed at a distance of 10 metres above the waterline (light condition). What minimum length of painter will you have to pull out pulled out in order to get the liferaft inflated (N.B.: The inflation of the liferaft takes place once
- A** 20 metres
- 
- EAKC** What areas of a vessel must the safety officer inspect on a three monthly basis
- A** All working spaces accessible by the crew



## CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EATY

If a refrigeration system contains air, how would you remove it from the system?

A From the condenser.

EATY

If a refrigeration system contains air, how would you remove it from the system?

A Pump the system down to the condenser, continue cooling water flow until the condenser is at the same temperature as the cooling water and vent off the air from the top of the condenser.

EAUS

If all indications are that a cargo has been received without damages, irregularities or short shipment and the phrase "apparent good order and condition" are entered on the Bill of Lading, what type of Bill is this said to be?

A A contract between Master/Owner and Shipper for transportation of goods?

EAUS

If all indications are that a cargo has been received without damages, irregularities or short shipment and the phrase "apparent good order and condition" is entered on the Bill of Lading, what type of Bill is this said to be?

A A contract between Master/Owner and Shipper for transportation of goods?

EAWN

Which of the following features is required for an anti-exposure suit ?

A is fitted with a light and a whistle

EAXB

According to the rules of GMDSS all vessels have to be equipped with:

A a possibility to receive MSI

EBAU

What is the main disadvantage of using oil free, screw type compressors for the reliquefaction plant of an LPG carrier?

A It is the number of revolutions, and the one used on the cargo is oil-free

EBAV

For what purpose do we use inert gas onboard gas carriers?

A We use inert gas to purge out cargo vapour and have a neutral atmosphere in cargo tanks and spaces

EBLR

What is the safest way to complete loading ( topping off )?

A Have one slack tank as last tank

EBOE

During air venting/gas freeing of tanks the blowers use air from?

A The blower air inlet

EBOX

What is the strain on each of the two slings?

A 1) 5 tons 2) 5 tons



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- EBPS** The emergency fire pump is in accordance with good seamanship and precautionary routines run and tested weekly. Routine checks and maintenance are normally carried out by dedicated personnel. To ensure safe and appropriate operation of the pump, would you consider it beneficial that the same
- A** In case of accidents, it is important that a wide range of personnel must be permitted and trained to operate the pump.
- 
- EBRI** What is/are the area(s) of the vessel which present a greater risk of fire?
- A** Cargo holds and engine rooms
- 
- EBWH** On the figure 4 possible definitions of the term "FREEBOARD" are given. Which one is the correct one?
- A** Freeboard is given by B on the figure
- 
- ECAT** \*What is the factor that makes the difference between a deflagrating and a detonating explosion?
- A** The speed of the shock wave created by the initial combustion
- 
- ECHF** Which ships are given special attention in Paris Memorandum of Agreement port state control inspections
- A** Passenger ships, ro-ro's, bulk carriers, ships which may present a special hazard ships which have had several recent deficiencies and ships flying the flag of a state appearing in the 3-year rolling average table of delays and detentions
- 
- ECKQ** A diabetic has eaten too little food and the person may feel dizzy and lightheaded. The skin becomes pale, with profuse sweating. Limbs may begin to tremble and pulse becomes rapid. The urine glucose reaction is negative. What kind of medicine will the person need as soon as possible?
- A** Sugar lump, sugar drink or something sweet.
- 
- ECKQ** A diabetic has eaten too little food and the person may feel dizzy and lightheaded. The skin becomes pale, with profuse sweating. Limbs may begin to tremble and pulse becomes rapid. The urine glucose reaction is negative. What kind of medicine will the person need as soon as possible?
- A** Sugar lump, sugar drink or something sweet.
- 
- ECLL** What is the meaning of the abbreviation "SWL" as stamped on lifting gear around the ship?
- A** Safe working load
- 
- ECMI** This circuit is a flip-flop. Which type?
- A** Bi-stable flip-flop
- 
- ECOS** What is the lowest temperature at which potatoes should be stored?
- A** + 4° C
- 
- ECSD** When sending an OBS (weather report) with Inmarsat one should use Service Code '41'. With this address the weather report will always be transmitted to:
- A** The meteorological station connected with the CES used



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ECSV

Give the meaning of the following symbol:

- A** immersion suit

ECTR

Having boarded the liferaft, how do you release the painter?

- A** Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

EDCE

What do you understand by the term "Slewing"?

- A** Making the crane jib move from side to side.

EDFH

Messages which aren't intended for own ship farther:

- A** must not be passed on

EDHG

You are to supervise a hot work repair in a cargo tank on an oil tanker. You have measured the atmosphere inside the compartment as 21% oxygen content by volume and less than 1% LFL concentration. Does this mean the work can commence? (Select the most correct option)

- A** No. More readings should be taken and sediments, sludge and residue should be removed at least 10 m from working site.

EDHG

You are to supervise a hot work repair in a cargo tank on an oil tanker. You have measured the atmosphere inside the compartment as 21% oxygen content by volume and less than 1% LFL hydrocarbon vapour concentration. Does this mean the work can commence? (Select the most correct option)

- A** No. More readings should be taken and sediments, sludge and residue should be removed at least 10 m from working site.

EDKO

What is the correct position/working area for the deck watchman during cargo operation?

- A** On the cargo tank area all time?

EDPP

Proper transmissions of the NAVTEX-message can be aided ..... by:

- A** automatically comparing the message earlier received ones

EDRB

Why should only dry powder known to be "foam compatible" be used in conjunction with foam to extinguish gas fires?

- A** Because certain types of dry powder can cause breakdown of a foam blanket

EDWG

What phenomenon is used for liquid cleaning by centrifugal separators

- A** Centrifugal force

EDXV

How many tonnes can you load in a 1000 m<sup>3</sup> tank which has a filling restriction of 1.8 kg/l at 90 % filling. Product to be loaded is Sulphuric Acid, LW 1.8 at loading/voyage temperature.

- A** 1620 Mt



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- EEAM** Before leaving the machinery spaces of a UMS vessel whose engine room is covered by a fixed CO2 installation, should the duty engineer:
- A** Ensure all doors are in closed position.
- 
- EEBG** \*How much water per person is provided in a lifeboat not equipped with a desalting apparatus?
- A** 3 litres
- 
- EECD** What is the Chief Mate asking for?
- A** He is asking about the position of the chain
- 
- EECH** The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. Should he:
- A** Not allow the clothes to be hung anywhere in the unmanned machinery spaces.
- 
- EEDP** \*As far as human factor is concerned, which of the following actions should be considered as an efficient one?
- A** All the answers are good
- 
- EEFI** What is MERSAR an abbreviation for?
- A** Merchant Ship Search and Rescue Manual.
- 
- EEHC** An alarm signal consisting of seven short blasts followed by one long blast is sounded by the ships whistle and the alarm bells. What are you to do?
- A** Go to your lifeboat station (muster station).
- 
- EEYR** What initial simple action can be taken to reduce the oxygen content of boiler water?
- A** Raise the feed water temperature.
- 
- EFAD** What is the main task of the lubrication oil in the engine?
- A** To lubricate and cool the engine.
- 
- EFBE** What document gives permission to have the on board transmitting equipment?
- A** a license
- 
- EFFH** The continuous listening watch on VHF-channel 16 must be kept on ships:
- A** also after 1 February 1999





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EFHP

Can any ground be given for dismissing a seafarer?

- A** No, only those listed in the Seamen's Act as dereliction of duty.

EFHR

If the master goes ashore, he is obliged to inform the:

- A** The deck officer of the highest rank present

EFOM

What is the function of the MPCU branch of the MCA

- A** To respond to oil pollution and take appropriate action as may be necessary

EFRB

Prior to entering service on a vessel in foreign trade for the first time you are required to have a health certificate not older than?

- A** Three months.

EFRC

To ensure a safe bunkering operation, and minimize the possibility for overbunkering and oil spill, we need a reliable communication system during the bunkering. How will you act, if your telephone connection goes dead while you are in charge of the bunkering, and the bunkering goes with a rate of

- A** Stop the bunkering until safe communications are established

EFVH

The satellite of the Inmarsat-EPIRB system have:

- A** geostationary orbits

EGBB

Where do you find instructions for tasks and duties in case of an emergency?

- A** In the muster list.

EGCP

Which of the main nine sections of the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc." states that the publication "Seamens Act with regulations and comments, 1995 " shall be on board?

- A** VI

EGCP

Which of the main nine sections of the book "Excerpts from the Norwegian Ship Control Legislation" states that the publication "Seamens Act with regulations and comments, 1995 " shall be on board?

- A** VI

EGHM

In which document would you record that the gangway is properly rigged?

- A** The deck log book

EGNI

Why are soluble oils not usually used as cooling water treatments these days?

- A** Risk of deposits on heat transmitting surfaces.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- EGNN** The pyrotechnics used to transmit visual signals to other vessels, boats or aircrafts are of the following type
- A** all of the above-mentioned
- 
- EGNN** The pyrotechnics used to transmit visual signals to other vessels, boats or aircrafts are of the following type
- A** All of the below mentioned
- 
- EGOG** What information is required to evaluate the condition of a heat exchanger during operation?
- A** In and outlet temperatures, and flow rates for both media
- 
- EGOG** What information is required to evaluate the condition of a heat exchanger during operation?
- A** Inlet and outlet temperatures and pressure drops across the heat exchanger for both fluids.
- 
- EGSU** On area A1 the function " Transmission and reception of ship to ship distress alerts " is mainly based on:
- A** the use of VHF DSC
- 
- EHEB** Indicate the correct name for the part marked on the sketch:
- A** Exhaust valve
- 
- EHL P** Which of the following kinds of fish is the least perishable in cold storage?
- A** Herring
- 
- EHMQ** How often shall watertight doors in main transverse bulkheads which is in use at sea be operated (tested)?
- A** Daily
- 
- EHNJ** What is the correct temperature range for the vegetable room where most of the fruits and vegetables are stored?
- A** 4 - 5° C
- 
- EHQX** Which item among those below is included in the normal equipment of every lifeboat ?
- A** two boat-hooks
- 
- EHVA** What is the most likely cause of the clean oil outlet pressure being higher than normal when operating a centrifuge as a fuel oil separator?
- A** Valve in the outlet line partly closed.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EHWT

\*Which of the following detailed explanations should be mentioned in the Training Manual ?

- A** The use of devices for protection in launching areas

EICL

In case of a fire in engine rooms, cargo holds or other confined spaces, what has to be done before the central gas extinguishing system is used?

- A** Make sure that the compartment has been evacuated

EIGQ

How many buoyant smoke signals are carried in each lifeboat?

- A** 2

EIHP

Water is best removed from lubricating oil by:

- A** Centrifugal separator.

EIQQ

\*Which of the following detailed explanations should be mentioned in the Training Manual ?

- A** The way to board, launch and clear the survival craft and rescue boats

EIXM

\*At what time must an automatic sprinkler fire-extinguishing system be capable of immediate operation?

- A** At all times

EJAA

For protection of crew who might come into contact with chemicals in the course of their work, the ship should have suitable equipment such as chemical resistant aprons, gloves, footwear, coveralls, face and eye shields etc. After the days work these should be stowed:

- A** In suitable lockers easily accessible, yet segregated from the living spaces themselves?

EJAR

At which of the pressures shown should the high discharge pressure trip operate on a freon compressor?

- A** + 18.5 bar

EJBR

If you see anything goes wrong with the loading or the discharging, who shall you as duty officer report to for corrections?

- A** The stevedore superintendent?

EJCH

How often should the lifeboat wire falls be turned and renewed?

- A** Turned at intervals of not more than 30 months and renewed every 5 years

EJJC

What is the period of validity of Safety Radio

- A** 1 year



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EJLQ

In a series installation of a purifier and a clarifier, what is the purpose of the clarifier

- A** As a safety net, for improved cleaning of the fuel oil

EJQO

Which one of the listed requirements regarding rocket parachute flares do not correspond to present regulations? The rocket parachute flares shall:

- A** burn with a bright orange colour

EJYA

For which of the following systems would you install a PID-controller

- A** Temperature-control

EKAR

When converting from "dry" cargo (example iron ore) to crude oil, you would:

- A** Sweep holds clean first and lift out solid residues manually prior washing. After washing again lift out remaining wet residues after carefully stripping out only the accumulated water?

EKCB

Define the class of emission F3E :

- A** Radiotelephony - Frequency modulation

EKEX

What comprises an INMARSAT-C subscriber number?

- A** Nine digits, beginning with a four (4).

EKLM

How many rocket parachute flares are carried in each lifeboat?

- A** 4

EKLO

How much water per person is provided in a liferaft not equipped with a desalting apparatus?

- A** 1.5 litre

EKTV

SCENARIO: All Fast has just been declared on completion of an underway mooring operation on both the constant heading ship (generally the discharging vessel) and the manoeuvring vessel (generally the offtake vessel). It is now decided that the former vessel should anchor. Who assumes responsibility for

- A** The vessel anchoring assumes responsibility

EKUL

What is the expected state of the refrigerant immediately before the expansion valve in a vapour - compression refrigeration system?

- A** Liquid at high pressure.

EKUQ

What should you do if you are in the engine room and the alarm for "CO2 release into the engine room" sounds?

- A** Leave the engine room immediately.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EKWG

Give the meaning of the following symbol

**A** Line throwing appliance

EKXF

In general what is the proportion of concentrate to water to produce foam?

**A** Between 3% and 6%

EKYY

The main engine is running steady. What is the normal slow down temperature for the main engine thrust bearing segment?

**A** 75° C

ELDW

Name the different system of reliquefaction plant we are using onboard gas carriers

**A** There are three main reliquefaction systems, Direct cooling one to three stage, direct cascade cooling and indirect cooling

ELER

What is the maximum allowed oxygen content in inert gas for inerting liquefied gas carrier cargo systems according to the IMO IGC Code?

**A** Maximum allowed Oxygen content in the inert gas on gas carriers is 5% by volume.

ELER

What is the maximum allowed oxygen content in inert gas in accordance to IMO IGC code?

**A** Maximum allowed Oxygen content in the inert gas on gas carriers is 5% by volume.

ELOQ

A sudden or gradual increase of the chloride content in the freshwater cooling indicates:

**A** Leakages from seawater coolers

ELOW

The self contained air support system on a totally enclosed lifeboat is designed to provide safe and breathable air with the engine running for a minimum of how many minutes?

**A** 10 minutes

ELPL

Which function is this operational amplifier circuit performing?

**A** Differentiator

ELPO

When ship to ship operations are being carried out at anchor, anchor watch duties are as follows irrespective of which ships anchor is down:

**A** Anchor watch responsibility rests with both vessels, each with its own watch

ELPO

When ship to ship operations are being carried out at anchor, anchor watch duties are as follows, irrespective of which ships anchor is down:

**A** Anchor watch responsibility rests with both vessels, each with its own watch



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ELQP

Why did the pilot recommend the SE channel?

- A** Because that was the safest passage considering the ship's draft.

ELTY

What should NOT be given to a patient suffering from diarrhea?

- A** Milk

ELUK

What is the correct location of portable fire fighting equipment during loading/discharging operations?

- A** One fire hose forward and aft of the manifold, and portable fire extinguisher near to ships manifold?

ELVJ

What system promises to bring major improvements to maritime Safety and Communications?

- A** GMDSS

ELXB

On area A3 the function " Reception of shore to ship distress alerts" is mainly based on:

- A** the use of HF DSC and INMARSAT C SAFETYNET

EMBD

When butadiene is carried as a liquid gas cargo it usually has inhibitors added. One reason for this is to minimise the formation of polymers. What is the other reason for adding inhibitors to this particular cargo?

- A** To remove the oxygen and by that avoid a chemical reaction.

EMIR

At which point do you engage the main circuit breaker of the incoming alternator when paralleling two alternators?

- A** With the pointer of the synchroscope at 0° (12 O'clock) and both synchronizing lamps dark (off)

EMKK

In what language/languages shall the fire control plans/folders (or copies of plans and folders) be? (SOLAS II-2/20.1)

- A** The Flag State language with copies in English or French

EMKL

Which item among those below is included in the normal equipment of every lifeboat ?

- A** tools for minor adjustments to the engine

EMLN

Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

- A** preparation and launching of the survival craft

EMMF

The ship has a right-handed propeller and is swinging to starboard when the engines are slow ahead and the rudder is to starboard. The engines are stopped and the rate of swing rapidly slows down. How could the swing to starboard be maintained without the ship making much headway.

- A** Yes, by putting the rudder hard stb. it will shield waterflow to the stb. side of the propeller and vice versa to port, this will effect turning of the ship



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EMON

On the average, how much long life milk would a crew of 30 men use in the course of 30 days?

**A** 220 liter

EMRE

What is the meaning of this symbol ?

**A** Lifejacket

ENBF

Which of the following is the correct procedure to observe when it is necessary to transfer oil cargo internally? (to trim the vessel by way of transferring cargo between tanks)

**A** Obtain permission from charters and note procedures in oil record book and deck log

ENCD

You are navigating in dense fog, visibility approx. 1 cable. On your radar, range 12 nm, you can see the following picture, how will you navigate until all vessels are cleared?

**A** Have the engine ready for immediate manoeuvre and adjust speed for safe navigation

ENCD

You are navigating in dense fog, visibility approx. 1 cable. On your radar, range 12 nm, you can see the following picture. How will you navigate until all vessels are cleared?

**A** Have the engine ready for immediate manoeuvre and adjust speed for safe navigation

ENCX

After checked for open airway, given the first two inflations and checked the pulse to make sure that the heart is beating, what is the rate of inflations given until natural breathing is restored ?

**A** 12 - 16 times per minute

ENGE

\*At what time must the required fixed fire detection and alarm systems with manually operated call points be in operation ?

**A** At all times

ENHB

Your vessel is a tanker in ballast and the two vessels are interlocked after collision. You have already made clear that all people are well taken care of and you will try to separate the two vessels. What should be your greatest concern?

**A** - The ships moving together in the swell/seaway will cause a spark and consequently an explosion. \_\_\_\_\_

ENHX

What is the difference between a PRESSURE SWITCH and a PRESSURE TRANSMITTER, if any?

**A** The pressure switch has contact(s) that will change between open and closed

ENHX

What is the difference between a PRESSURE SWITCH and a PRESSURE TRANSMITTER, if any?

**A** The pressure switch has contact(s) that will change between open and closed position. The pressure transmitter converts a pressure signal into an electric signal.

ENIY

MARPOL 73/78 - Annex IV. Prevention of Pollution by Sewage from ships. This annex is not yet in force, however, some Governments are practising these rules. What do you understand by the word "Sewage"?

**A** Drainage/waste from toilets/urinals.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- ENJG** How is the activation of any detector or manually operated call point of fixed fire- detection and fire-alarm systems to be indicated? (SOLAS II-2/13.1.4)
- A** By visual and audible signal at the control panel and indicating units
- 
- ENJT** Every inflatable liferaft , inflatable lifejacket and hydrostatic release units shall be serviced:
- A** Every 12 months.
- 
- ENLD** A ship in distress should transmit the appropriate alarm signal followed by the distress call and message on one or all of the international distress frequencies. Which of frequencies is in accordance with the present recommendations?
- A** 500 kHz, 2182 kHz and 156.8 MHz
- 
- ENMD** Which of the following is a coast station MMSI ?
- A** 2275300
- 
- EOBE** There are three levels of burning, namely:\*Superficial \*Intermediate\*Deep burns (also called full-thickness burns) A large burn will almost certainly contain areas of all three grades. How many per cent of the body may be burned before the danger of lifethreatning shock occurs?
- A** 15 percent.
- 
- EOBE** There are three levels of burning, namely:\*Superficial \*Intermediate\*Deep burns ( also called full-thickness burns) A large burn will almost certainly contain areas of all three grades. How many per cent of the body may be burned before the danger of lifetreatning shock occur?
- A** 15 percent.
- 
- EOBS** What is the fat content of whole milk?
- A** 3.5 - 3.9 %
- 
- EOCW** Why is it necessary to keep cargo and bunkerlines blanked off while not in use?
- A** To avoid unexpected oilspill
- 
- EODR** On the figure there are four (4) possible definitions of the term "ASTERN" shown. Which one is the correct one?
- A** Astern is defined as D on the figure
- 
- EOEQ** SOLAS regulations require surveys of ships to be carried out at certain times and at certain intervals. Which of the following surveys apply to passenger ships only?
- A** Periodical survey every 12 months
- 
- EONQ** \*Which of the following detailed explanations should be mentioned in the Training Manual ?
- A** How to recover survival craft and rescue boats including stowage and securing





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EORC

At which level will the slop-system high level alarm sound ?

**A** 98 %

EOXS

If a boiler is smoking "black smoke" a possible cause can be

**A** All alternatives

EOYL

How should the painter of a liferaft which is fitted with a hydrostatic release, be secured to the ship?

**A** Secured via a weak link to a secure part of a ship

EPAE

Which item among those below is included in the normal equipment of every rescue boat ?

**A** a searchlight which can work continuously for not less than 3 hours

EPBT

Which of the following items is essential and should always be kept in stock?

**A** Sugar

EPEH

By frequency is meant:

**A** number of vibrations per unit of time

EPEJ

Which surveys does the MCA not delegate to classification societies?

**A** Passenger ship initial surveys, Initial surveys of a Certificate of Fitness or International Noxious Liquid Substances Certificate and initial surveys for SEC or IOPP, and all radio surveys.

EPFC

If a ship in the MF-band wants to have a DSC-connection with a coast-station (no 'distress alert' or a test alert) the following frequencies are chosen:

**A** TX: 2189.5 kHzRX: 2177.0 kHz

EPIM

Give the meaning of the following symbol:

**A** location of embarkation ladder

EPUE

Some gas carriers are designed to carry both LPG and LEG. What is the design temperature on the cargo containment system on a LPG/LEG carrier?

**A** Design temperature on the cargo containment system on a LPG/LEG carrier are -103oC

EPWO

Which one of the listed requirements regarding radiotelegraph installations for lifeboats do not correspond to present regulations?

**A** Reserve accumulator battery for two hours normal use to be provided



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- EPXN** The plate heat exchanger is separated for cleaning. What will You do if the plates are thick with scale or other organic material?
- A** Put the plates in water with qualified cleaning chemicals, and use soft brush, or high pressure cleaner with care.
- 
- EPXN** The plate heat exchanger is separated for cleaning. What will You do if the plates are thick with scale or other organic material?
- A** Soak the plates in a recommended cleaning solution and then use a soft brush or
- 
- EQAW** What kind of safety equipment should be in place in connection with a grinding wheel?
- A** Goggles and shield.
- 
- EQBV** How many buoyant smoke signals are carried in each liferaft?
- A** 2
- 
- EQLQ** What do you understand by the initials S.W.L. when applied to a crane?
- A** The load that can be safely lifted during normal working conditions.
- 
- EQPD** Which of the following letter combinations represents a level indicating controller on a process and instrumentation diagram
- A** LIC
- 
- EQPD** Which of the following letter combinations represents a level indicating controller on a process and instrumentation diagramv
- A** LIC
- 
- EQRN** From the pressure gauges shown can you tell what is the oil pressure in a freon compressor?
- A** 2.0 bar
- 
- EQRQ** What shape of hull would you say a course unstable ship would have?
- A** A ship with a length to beam ratio less than 5.5
- 
- EQTB** When topping off on board an oil tanker, what is the recommended precautionary practise, as per ISGOTT, for ensuring there is no residual flow into tanks that have completed loading?
- A** 2 valves
- 
- EQTD** Which one of the listed requirements regarding the stowage of lifeboats and liferafts do not correspond to present regulations? (SOLAS II/13.3 - 13.6)
- A** Liferafts intended for throw-overboard launching shall be stowed amidships secured to means for transfer to either side



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- EQYE** Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?
- A** warning the passenger
- 
- ERAT** What is the main quencher for an oil tanker?
- A** Foam.
- 
- ERIM** If water contamination occurs in the crankcase oil of an auxiliary engine the oil viscosity will:
- A** Increase.
- 
- ERJE** Where would the Official number be "carved" on the ship?
- A** On the main beam
- 
- ERLQ** \*In addition to personal equipment a complete set of firemans outfit also comprises a breathing apparatus and a fireproof lifeline. How many complete sets of firemans outfit is to be carried by ships carrying dangerous goods?
- A** At least four sets or more depending on the type and the size of the vessel
- 
- ERNF** Which of the equipment listed is not included in the firemans personal equipment? (SOLAS II-2/17.1.1)
- A** Leather safety boots and gloves
- 
- ERXD** Shall the seafarer receive a statement showing the calculation of his wages?
- A** Yes, showing how it has been calculated and with possible deductions.
- 
- ERXJ** When an air compressor is going to be started it is important that the compressor is started with the "blow off" valves open. Why?
- A** To ensure that we do not have any water assembly in the cylinders when the compressor start.
- 
- ESCJ** Who will have the authority to take charge and make appropriate decisions in the event of a vessel emergency when transiting the Panama Canal?
- A** Sufficiently manned with officers and crew to permit safe handling of vessel
- 
- ESCK** The earth lamps in a 3-phase system indicate as follows: Red= bright Yellow= dark Blue= dim
- A** no fault - hard earth - light earth
- 
- ESCK** The earth lamps in a 3-phase system indicate as follows: Red= bright Yellow= dark Blue= dim . Which fault condition shown as red - yellow - blue is correct?
- A** no fault - hard earth - light earth



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- ESEA** You have checked the oil viscosity in an auxiliary engine with the viscosity test kit. The result shows that the viscosity is low. What will You do?
- A** Clean the system and change the oil.
- 
- ESFO** This is a typical emitter follower. What is the main benefit obtained by use of an emitter follower?
- A** The input impedance is made much larger than the output impedance
- 
- ESFO** This is a typical emitter follower. What is the main reason for use of an emitter follower?
- A** The input impedance is made much larger than the output impedance
- 
- ESGN** Which part of the human body out of the list given after is not considered to allow maximum heat exchange with the surrounding fluid (air/water)?
- A** feet
- 
- ESGN** Which part of the human body out of the list given below is not considered to allow maximum heat exchange with the surrounding fluid (air/water)?
- A** feet
- 
- ESHH** Which item among those below is included in the normal equipment of every lifeboat ?
- A** two buoyant rescue quoits with buoyant line
- 
- ESIY** You have discovered a small leak of oil at the manifold during discharging. What is the first thing you should do?
- A** Call immediately the person in charge.
- 
- ESIY** You have discovered a small leak of oil at the manifold during discharging. What is your first action?
- A** Call immediately the person in charge.
- 
- ESIY** You have discovered a small leak of oil at the manifold during the discharge of an oil cargo. What is the first thing you should do?
- A** Call immediately the person in charge.
- 
- ESOT** Under the regulations of GMDSS channel 70 is used for:
- A** distress alerting
- 
- ESOV** The MERSAR is:
- A** a book of directions for search and rescue at sea



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ESPO

The muster list must be prepared:

- A** at any moment before the ship proceeds to sea

ESUM

When using ejector for stripping, in what order will you open the valves?

- A** All valves on the delivery side and adjust the propellant pressure.

ETBH

The automatic voltage regulator is used to control the output voltage of the alternator at varying load conditions by:

- A** Varying the excitation field strength by regulating excitation voltage/current

ETBH

The automatic voltage regulator is used to control the output voltage of the alternator at varying load conditions by which of the alternatives?

- A** Varying the excitation field strength by regulating excitation voltage/current

ETES

According to rule 13 of the International Regulations for Preventing Collisions at Sea, what is the definition of "an overtaking vessel"?

- A** When coming up with another vessel from a direction more than 22.5 degrees abaft her beam

ETJY

What do we mean with LEL when measure the atmosphere?

- A** LEL is lower explosive limit

ETKK

Why do we clean?

- A** Because if we don't clean it will influence safety, economy, our own well-being and maintenance.

ETLE

To help avoid accidental use of wrong cleaning products what precautions should be taken when stored?

- A** Different products to be placed on separated and labelled shelves.

ETMC

Which section in the provision in question prescribes the obligation to furnish a guarantee or take out insurance relating to compensation in the event of occupational injury or the employers insolvency?

- A** Section 32

ETSY

The INMARSAT B Mobile Earth Station Identification Number (IMN) consists of:

- A** nine digits, beginning by 3

ETTX

Which class of emission is used for ARQ NBDP transmissions ?

- A** F1B



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- ETXE** The powersupply to the haddisk of a personal computer consists normally of two voltages. Which?
- A** 5 V and 12 V
- 
- ETYX** When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, the voltage will:
- A** Initially rise, then reset to the set value.
- 
- ETYX** When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, the voltage will do what?
- A** Initially rise, then reset to the set value.
- 
- ETYX** When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, what will the output voltage do?
- A** Initially rise, then reset to the set value.
- 
- ETYX** When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, what will the ouutput voltage do ?
- A** Initially rise, then reset to the set value.
- 
- EUCH** What is false regarding the function : "Transmission and reception of signals for locating "
- A** On area A3 and A4 this function is based on the use of SRSAT COSPAS Epirb
- 
- EUDT** What surveys are required for the Safety Management Certificate
- A** Initial and intermediate
- 
- EUDV** How often shall crew members participate in fire drills?
- A** Once every month
- 
- EUTX** You have just synchronized a second alternator onto the main switchboard, and want to equally share the load between the "on" and incoming alternators. What would you do first?
- A** Raise the governor speed controller of the incoming alternator and reduce the governor speed controller of the alternator already on the switchboard
- 
- EUTX** You have just synchronized a second alternator onto the main switchboard, and want to equally share the load between the "running" and incoming alternators. What would you do first?
- A** Raise the governor speed controller of the incoming alternator and reduce the governor speed controller of the alternator already on the switchboard
- 
- EUUN** Chemical tankers are built with either "gravity" or "pressure" type cargo tanks. A "gravity" tank is one having a design pressure at the top of the tank of:
- A** 0.7 bar?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EUUQ

The instrument most widely used for testing of semiconductor diodes is

**A** Ohmmeter

EUWE

How many buoyant smoke signals are carried in each liferaft with SOLAS B pack?

**A** 1

EUXV

What will the cadet find in the engine store?

**A** He will find new brake bands in the engine store

EVKX

What would be the most probable cause of light, smoky exhaust from a diesel engine?

**A** Water carry over from charge air cooler to engine cylinders.

EVNS

What type of signal output is derived from a NiCr/Ni thermocouple?

**A** mV.

EVNT

What is the purpose of the function "Anticlutler" sea on the radar?

**A** Reduce the sea echoes.

EVRY

What is the minimum supply pressure on the COW lines?

**A** As stated in the COW manual

EVVG

Which item among those below is included in the normal equipment of every rescue boat ?

**A** an efficient radar reflector

EWBA

What actions shall be taken if any machinery is not functioning properly?

**A** The condition shall be noted and plans for further actions developed.

EWHS

Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

**A** When the tank has been satisfactory cleaned there shall be a 24 hour quarantine. Ventilation to be stopped and gas levels measured every second hour.

EWIQ

When passenger ships are engaged on international voyages (except for short ones) musters of the passengers must be performed within

**A** 24h after their embarkation



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EWIQ	When passenger ships are engaged on international voyages (except for short ones) musters of the passengers must be performed within:  <b>A</b> 24h after their embarkation
EWKF	What will be the probable outcome, if the amplification is set too high on a temperature controller?  <b>A</b> The process will oscillate and get out of control
EWMY	What is the main precaution to be taken prior to engaging the turning gear for a diesel engine?  <b>A</b> Shut off the starting air supply and open the indicator cocks
EWPK	Which separator operation conditions should be avoided?  <b>A</b> Dry running of the pump, high temperature of the contents and various flowrate.
EWPL	The main engine is running steady. What is the normal slow down temperature for the main bearing metal "Oil outlet temperature"?  <b>A</b> 70° C
EWRW	*A self contained breathing apparatus should contain at least 1200 litres of air. How long should this last for a normal person who is not carrying out hard work?  <b>A</b> 30 minutes
EWUJ	A satellite receives the transmissions of a 1,6 GHz Inmarsat EPIRB. The transmissions of this EPIRB will be:  <b>A</b> exclusively past to a ground-station between 70 degrees N and 70 degrees S
EWUL	Give the meaning of this symbol:  <b>A</b> lifebuoy with light
EWVA	How can the master ensure obedience?  <b>A</b> He shall ensure obedience by the use of force if he finds it necessary, but not use harsher means than the circumstances make necessary.
EXCO	Which of the following is a INMARSAT A Mobile Earth Station Identification Number (IMN)?  <b>A</b> 122700
EXDR	On board one can use the reflections in the ionosphere by the right choice of:  <b>A</b> the time of transmission





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

EXEG

Give the meaning of the following symbol

- A** Wheeled fire extinguisher

EXGV

To avoid overbunkering and oil spill, it is very important that we closely monitor the progress of the bunkering operation. What is the safest method to use to minimise the risk of overflow and spillage?

- A** A combination of ullage soundings and readings from the remote gauges

EXGV

To avoid overbunkering and oil spill, it is very important that we keep a close monitoring of the bunkering progress, and this is done by sounding and calculations, the most reliable way is:

- A** A combination of ullage soundings and readings from the remote gauges

EXHS

What precaution is to be taken when the Engineer on Duty is entering an UMS-mode operated engine room due to an alarm or due to a scheduled routine check?

- A** Notify the Bridge and switch the UMS selector switch to manual mode and engage the "dead man alarm"

EXHS

What precaution is to be taken when the Engineer on Duty is entering an UMS-mode operated engine room due to an alarm or due to a scheduled routine check?

- A** Switch the UMS selector switch to manual mode and engage the "dead man alarm"

EXIL

When preparing a working plan for cleaning personnel, what is the most important issue?

- A** The plan must show where to clean every day and where/when periodically cleaning should be done.

EXKB

Which part of the crankshaft of a modern large two stroke diesel engine is most likely to be the origin point for crack initiation during service and therefore needs the greatest attention during maintenance inspection?

- A** The fillet radii

EXUJ

What should the Third Officer do, if he finds something missing from a lifeboat?

- A** If he finds something missing from a lifeboat, the Third Officer should notify the Chief

EYCQ

Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms covered by a fixed fire fighting installation. For what purpose does he do this?

- A** Close them to prevent the spread of fire, and allow the extinguishant to be released without time wasting.

EYCQ

Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms covered by a fixed fire fighting installation. For what purpose does he do this?

- A** To make sure that they are properly closed with the self closing device so that any fire is contained and the extinguishing medium can be released without delay.

EYCQ

Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms which are covered by a fixed fire fighting installation. For what purpose does he do this?

- A** Close them to prevent the spread of fire, and allow the extinguishant to be released without time wasting.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- EYCQ** Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms which are covered by a fixed fire fighting installation. For what purpose does he do this?
- A** To make sure that they are properly closed with the self closing device so that any fire is contained and the extinguishing medium can be released without delay.
- 
- EYFC** Modern slow speed, two stroke diesel engines often have locating pins or pegs to keep the piston rings in a fixed position. Why is this arrangement used?
- A** It avoids the risk of the ends of the piston rings being forced out by the gas pressure and
- 
- EYFY** Two factors are important before starting the washing machine, name them.
- A** That correct temperature and washing products are chosen for the linen to be washed.
- 
- EYJD** What is the "international shore connection" used for?
- A** To connect the ship fire main to the shore lines
- 
- EYJG** The authority to order to use of distress signals or distress alerts is:
- A** only with the master
- 
- EYKA** Which one of the following materials belong to Class 4.1, according to the IMDG code?
- A** Solid combustibles
- 
- EYMK** In which Part(s) do you find regulations relating to supervision of maritime service in the book "Excerpts from the Norwegian Maritime Code of 24 June, 1994, No. 39"?
- A** In Part 16.
- 
- EYMK** In which Part(s) do you find regulations relating to supervision of maritime service in the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"?
- A** In Part 16.
- 
- EYMK** In which Part(s) do you find regulations relating to supervision of maritime service in the book "Excerpts from the Norwegian Ship Control Legislation"?
- A** In Part 16.
- 
- EYSQ** Which class of emission is used for FEC NBDP transmissions ?
- A** F1B
- 
- FATM** Why is it important to slow down the main engine RPM while water-washing the turbocharger?
- A** Not to damage the rotor blades



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- FAUG** You are to turn your vessel in a narrow canal by use of two tugs with the same power. The wind varies in the range moderate/strong. Where/how would you use the tugs?
- A** Pushing, made fast in the vessel
- 
- FAVA** The ship is drifting in the open sea with a temporary engine breakdown. The ship is equipped with GPS navigation equipment. What should the bridge Officer of the Watch do in this situation?
- A** Use the opportunity to plot direction and rate of drift for later use
- 
- FBBB** Whilst in the Engine room you hear the CO2 release alarm, what action if any should you take.
- A** Leave the engine room as quickly as possible, closing all doors behind you.
- 
- FBNL** What comprises an INMARSAT-A subscriber number?
- A** Seven digits beginning with a one (1).
- 
- FBSH** What should be done after departing loading port, at intervals during the voyage and prior to discharging port ?
- A** Inspect/measure all areas surrounding loaded tanks for leakage. Result to be recorded in the deck log book.
- 
- FBUX** Give the meaning of this symbol:
- A** lifebuoy with light and smoke
- 
- FBVA** What is the meaning of this symbol ?
- A** Muster station
- 
- FCFD** Consider a 450 volt, 859 kW rated generator has not been in operation for several weeks. Prior to starting, insulation resistance readings are taken. The minimum acceptable insulation resistance reading on the main stator winding to allow you to proceed with running the generator is:
- A** 10 000 000 Ohms
- 
- FCGX** You have to choose one of the following instruments for measuring pressure in an air bottle in measuring range 0 - 35 BAR. Which instrument will you install?
- A** Bourdon Tube manometer
- 
- FCGX** You have to choose one of the following instruments for measuring pressure in an air bottle in measuring range 0 - 35 BAR. Which instrument would you install?
- A** Bourdon Tube manometer
- 
- FCHS** The correct time to synchronise is usually taken to be when the synchroscope reaches the "5 to 12" position and is rotating slowly clockwise. This to allow for:
- A** Circuit breaker operating time



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- FCHS** The correct time to synchronise is usually taken to be when the synchroscope reaches the "5 to 12" position. This to allow for:
- A** Circuit breaker operating time
- 
- FCHU** Consider a vessel with a 6 cylinder main diesel engine operating with one cylinder out of operation. What would you expect to be the approximate maximum reduced engine load to allow safe emergency operation in this condition?
- A** 70 % of MCR
- 
- FCIN** In maritime communication two international treaties are primarily involved. They are:
- A** The IMO at London and the ITU at Geneva
- 
- FCJC** Read the text in the frame before answering the question: Why would the shipping world have serious problems if all the old tonnage was taken out of service today?
- A** Because we need old ships in good condition to meet the world's demand for transportation.
- 
- FCNJ** When having a fire alarm during normal working hours, what immediate actions should be taken?
- A** Act according to instruction given in the fire plan.
- 
- FCQY** For a "distress alert" via the DSC, the MF-band is used in the frequencies:
- A** TX: 2187.5 kHzRX: 2187.5 kHz
- 
- FCWR** The method of extinction by smothering is based on this basis;
- A** The fire is extinguished by avoiding the contact between the fuel vapours and the oxygen
- 
- FDAX** Give the meaning of the following symbol
- A** Heat detector
- 
- FDBR** How many grams of skinned and boned fish fillet would you calculate per person for boiled/fried fish dishes?
- A** 200 gr
- 
- FDBR** How many grams of skinned and boned fish fillet would you estimate per person for boiled/fried fish dishes?
- A** 200 gr
- 
- FDCL** Which type instrument is shown on this picture?
- A** Electric Contact manometer



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FDCQ

Give the meaning of the following symbol

**A** Foam release station

FDHM

Why do we use cylinder oil?

**A** to neutralize the sulfur and get a lubricating oil film between piston rings and liner

FDQF

When a character in the NAVTEX message sent is not received in the proper way:

**A** nothing or a special characters will be printed

FDYB

In addition to cargo & machinery spaces which other spaces if any have to be fitted with an approved fixed fire fighting system on cargo ships?

**A** Paint store

FECM

For how long and at what speed is a fully loaded lifeboat designed to operate in calm weather ?

**A** 6 knots for 24 hours

FEIA

Is there any particular procedure to be followed when dismissing a seafarer?

**A** A hearing shall be held before a committee on board.

FEPX

The driving water pressure is very important to maintain good efficiency when using the ejector for stripping. Where can you find information on board telling you the recommended pressure?

**A** The ship's cow manual and ejector's performance curves.

FEUP

\*A lifebuoy must have an inner diameter of:

**A** not less than 400 mm

FEVA

What is "UNDER KEEL CLEARANCE", in the figure?

**A** Under Keel Clearance is indicated by C, in the figure

FEWC

The effect of reflection of the radio waves in the ionosphere on the range depends on:

**A** the amount of ionisation

FEWH

You are onboard a vessel enroute off the West African coast. How far off the coast do you have to be, to be able to dump a mixture of food waste, glass bottles and floating packing materials ?

**A** 25 nautical miles off the coast



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FEWL	Which of the following spices comes from a flower?
A	Tarragon
FFBP	Your vessel is equipped with steam heating coils in every tank. You are to load Caustic Soda solution in two centre tanks. You will also load several other chemical grades, none of which will require any heating, in the remaining centre tanks and in the wing tanks. The Caustic Soda will require heating on
A	The should be blown completely dry by the use of air or nitrogen and then blanked.
FFBP	Your vessel is equipped with steam heating coils in every tank. You are to load Caustic Soda solution in two centre tanks. You will also load several other chemical grades, none of which will require any heating, in the remaining centre tanks and in the wing tanks. The Caustic Soda will require heating on
A	The should be blown completely dry by the use of air or nitrogen and then blanked.
FFBP	Your vessel is equipped with steam heating coils in every tank. You are to load some Caustic Soda solution in two centre tanks. You will load several other chemical grades, none of which will require any heating, some in the remaining centre tanks and the rest in the wing tanks. What should happen to the
A	The should be blown completely dry by the use of air or nitrogen and then blanked.
FFFR	All designated SAR aircraft and civil aircraft carry equipment operating on the international aeronautical distress frequencies (amplitude modulation). The aeronautical distress frequencies are?
A	121,3 MHz and/or 243,0 MHz
FFMF	If the temperature increase, what will happen with the interface in the bowl?
A	Interface towards center.
FFRC	If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the complete rate when performing ECC?
A	Complete 15 compressions at the rate of 80 compressions per minute
FFSG	Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?
A	Keep the floors and decks free from fat and grease.
FFSG	Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What should be done to reduce this high accident rate?
A	Keep the floors and decks free from fat and grease.
FFSU	If you have an overflow to deck, and the result is pollution to the environment, what should you do?
A	Immediately notify the captain so he can notify the proper authorities, so the pollution can be dealt with by professionals
FFTA	What arrangement may be installed in passenger ships to reduce unsymmetrical flooding in damaged condition?
A	Cross flooding arrangement



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- FFTU** Which type of portable lighting may be used to enter a compartment on a tank barge which is NOT gas-free?
- A** An explosion-proof, self-contained, battery-fed lamp
- 
- FFYR** According to the rule of GMDSS, channel 70 is used for:
- A** alerting
- 
- FFYS** The person charged with radio distress traffic must be referred to in:
- A** the ship's radio log
- 
- FGBH** Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats corresponds to present SOLAS regulations?
- A** Rapid recovery shall be possible with the boat's full complement of persons and
- 
- FGBH** Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats corresponds to present SOLAS regulations?
- A** Rapid recovery shall be possible with the boat's full complement of persons and equipment.
- 
- FGCY** \*Which one of the following methods can be adopted for the internal divisional bulkheading of the accommodation and service spaces of a cargo ship?
- A** All these methods can be adopted
- 
- FGEQ** \*Which of the following statements applies to fire doors in main vertical zone bulkheads and stairway enclosures in passenger ships?
- A** All the alternatives are correct
- 
- FGEQ** \*Which of the following statements applies to fire doors in main vertical zone bulkheads and stairway enclosures in passenger ships?
- A** All the mentioned alternatives
- 
- FGKN** Why is ethylene glycol added to the L.P.G. compressor cooling water system?
- A** To prevent the water from freezing.
- 
- FGOP** A strain occurs when a muscle or group of muscles is over- stretched and possibly torn, by violent or sudden movement. Strain can be caused by lifting heavy weights incorrectly. The treatment of strain may be remembered as the word RICE. What is RICE an abbreviation for?
- A** Rest, Ice, Compression, Elevation.
- 
- FGPT** What must be regularly checked with the emergency battery of a GMDSS portophone:
- A** the date when the battery must be replaced



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**FGRB**

There has been an accident on board. Urgent medical advice is needed. The call is preceded by:

**A** PAN PAN (3x)

**FGSD**

Which item among those below is included in the normal equipment of every lifeboat ?

**A** a rustproof graduated drinking vessel

**FGVB**

Which are the main components in Alkaline cleaning products?

**A** Lye, metasilicate and soda ash.

**FGVG**

VHF channel 15 is:

**A** Inter-ship channel

**FGWA**

Do regulations on the scope of the Seamens Act apply:

**A** to both passengers and cargo ships? Yes.

**FGXW**

In a smoke filled alleyway, where will the cleanest air be found, and how should you proceed out?

**A** Near to the deck, crawl out keeping your face as near to the deck as possible

**FHGB**

Thermistors are temperature sensitive devices. A positive temperature coefficient thermistor will typically have

**A** Relatively non linear characteristic

**FHGM**

What is the correct definition of: -boat deck?

**A** The deck for the lifeboats.

**FHIQ**

Are there any special lights to be exhibited by a vessel towing or pushing another vessel?

**A** Lights as per rules regulated by the shape and total length of the towing

**FHJO**

The timing of the engine is delayed. The exhaust temperatures are high. How would you expect this to affect the turbocharger?

**A** Increased turbocharger revolutions

**FHKJ**

If extensive repair to the superstructure has been carried out, it will affect the:

**A** Load line certificate





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FHLB

\*In case each hydrant is not fitted with hose and nozzles, what is the requirement ?

- A** There must be a complete interchangeability of hose couplings and nozzles

FHUH

What is recommended for general rough cleaning?

- A** Alkaline detergent (strong).

FHVL

Apart from red, what other colour is frequently used for a CO2 extinguisher?

- A** Black

FIAI

The OOW is expected to double-check the whole voyage plan?

- A** - All of this suggested answers.

FIAI

The OOW is expected to double-check the whole voyage plan?

- A** Yes

FIBF

A centrifugal pump, which has been running normally and under optimum conditions, is due for maintenance according to the planned maintenance schedule. Which of the following components will most likely need to be renewed to ensure incident free running through to the next scheduled

- A** Ball bearings on the pump shaft, and wear rings on pump housing or impeller.

FIBF

A centrifugal pump, which has been running normally and under optimum conditions, is due for maintenance according to the planned maintenance schedule. Which of the following components will most likely need to be renewed to ensure incident free running through to the next scheduled

- A** Ball bearings on the shaft and the wear rings for the pump housing or impeller.

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A centrifugal pump, which has been running normally and under optimum conditions, is due for maintenance according to the planned maintenance schedule. Which of the following components will most likely need to be renewed to ensure incident free running through to the next scheduled

- A** Ball bearings on the shaft and the wear rings for the pump housing or impeller.

FIEJ

Indicate the correct name for the part marked on the sketch:

- A** Turbocharger

FIIP

For cargo calculations there are two corrections to be made. Two tables are used for this purpose.

- A** List and trim correction tables.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FIJH

Why does the Master sign on the exempted section of the crew agreement?

- A** He has a special a special role as company agent

FIKI

Where is the masters responsibility for observing the provisions related to supervision of maritime service stated?

- A** In the Act relating to the enrolment of employees onboard ships.

FILE

\*Which of the following items must be included in each fire drill?

- A** All the items mentioned

FIPC

Give the meaning of this symbol:

- A** lifebuoy with light and smoke

FIRA

Which one of the listed requirements regarding lifeboat propulsion do not correspond to present regulations?

- A** The engine shall be provided with an electric power starting system with rechargeable energy batteries

FISU

How do You test the probes for the 15 PPM monitor ?

- A** By immersing them in buckets with oil and water.

FIUL

Static electricity may be built up by the :

- A** All of the above

FJAH

What is the normal maximum oil content permitted for machinery space bilge overboard discharge via OWS equipment?

- A** 15 PPM

FJBB

Where is the normal position of the "Pivot Point" of a vessel when going astern?

- A** - Between 1/4 of the ship's length from the stern and the rudder post

FJGX

In order for fuel oil to burn properly it must

- A** All alternatives

FJHV

Which provisions concerning holydays must the master ensure that is carried onboard?

- A** The Act relating to holydays and Regulations relating to holydays for employees on ships.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FJMV

What are the ideal conditions required to satisfactorily conduct an Inclining Experiment?

**A** All of the suggested answers

FJPB

A death of one of the ship's crew occurs on board whilst the vessel is at sea, what actions must you legally take?

**A** First aspect confirm death. Notify company, and make arrangements for notification of next-of-kin. Arrange to have body moved to freezer area. Notify local agents and British Consul when abroad. Complete Births and Deaths section of Official Log book. Ma

FJPC

If a crew member joins and his certificate had expired 2 days previously, would you sign him on the Crew Agreement?

**A** No - his certificate is not valid

FKAB

The International Organisation which has developed GMDSS is :

**A** IMO

FKBR

What would you do before giving a boiler a "bottom blow"

**A** Raise the water level a couple of inches above normal

FKCQ

The word RADIO is spelled conform the international phonetic alphabet:

**A** Romeo, Alpha, Delta, India, Oscar

FKDL

The centrifugal pump is not delivering water, what is the problem

**A** Air leaks on suction side

FKPY

When the fire alarm signal is sounded every member of the ships crew shall immediately proceed to their assigned fire station. Which one of the following signals is used as fire alarm signal on board cargo ships?

**A** Intermittent signals by the ship's alarm bells.

FKQQ

Before each cargo tank is crude oil washed (COW) the oxygen content must be determined at?

**A**

FKRO

When bunkering through the port side of the bunker manifold what action should be taken with the valves on the starboard side of the manifold prior to bunkering operations commencing?

**A** One bolt in every hole

FKRP

The inductance which will induce an EMF of 1 Volt in a conductor when the current is changing at a rate of 1 Amp per second, is defined as

**A** Henry



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FKSJ

Check-synchroniser equipment is often installed to:

- A** Prevent manual synchronising outside permitted limits

FKUA

How many rocket parachute flares are carried in each liferaft with SOLAS A pack?

- A** 4

FLBS

The exhaust temperature on one cylinder of a diesel engine is high; what is the most likely cause of this?

- A** Poor cylinder condition - blow by -including leaking exhaust valves.

FLCN

Are there any restrictions about how much sludge we can pump overboard on the sea voyage?

- A** Maximum is 30 litre pr nautical mile and total is 1/30000 part of full cargo on the ballast voyage.

FLDH

Is there any requirements regarding crew's language skills?

- A** Yes, all crew must be able to communicate on the language spoken by the majority of the passengers, or demands set by the company.

FLMJ

If circumstances permit, how should low expansion foam be applied to oil burning in the bulkhead of the engine room?

- A** The foam should be aimed at the bulkhead behind the fire and allowed to spread out slowly over the fire.

FLMJ

If circumstances permit, how should low expansion foam be applied to oil burning near a bulkhead of the engine room?

- A** The foam should be aimed at the bulkhead behind the fire and allowed to spread out slowly over the fire.

FLPT

\*The Master is responsible that all crew participate in monthly emergency drills. If 25% of the crew - or more - has not participated in such drill during the last month, what is the time limit to conduct such a drill after the vessel has left a port?

- A** Within 24 hrs

FLPV

Why is it important to sort out linen before washing?

- A** To avoid damage and miscolouring of different types of fabric when washing.

FMAT

Inhibitors are often added to liquefied gas cargoes prior to loading to prevent or slow down polymerisation. An inhibitor information form or certificate must be provided by the cargo shipper to the vessel. What sort of information must this certificate contain about the inhibitor in addition to the technical

- A** Inhibitor name, concentration of inhibitor, duration of effectiveness of inhibitor, expected duration of sea voyage, temperature limitation qualifying the lifetime of the inhibitor and number of cargo tanks inhibited

FMKT

What type of nozzles for fire hoses can be provided aboard ships?

- A** Dual purpose (jet/spray) type incorporating a shutoff



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FMOV

The names and addresses of accounting authorities can be found in :

**A** The ITU List of Ship Stations

FNBO

On some large slow speed engines the crosshead guides are adjustable to allow the clearance between the crosshead shoes and the guides to be set equally. The normal arrangement is to have bolted on guide bars with shims fitted behind them. Which of the methods given in the options is the one normally

**A** Turn the engine so that the piston skirt is at the bottom of the liner. Use wedges to

FNCM

What is the correct definition of: -boat drill?

**A** Training in lifeboat handling.

FNEV

The thermo-expansion-valve is a part of the refrigeration system. What is the thermoexpansion valve doing?

**A** Regulating freon liquid flow to the evaporator.

FNIF

How many digits are there on a MMSI number?

**A** 9

FNII

A vessel is equipped for all sea areas. In the middle of the Indian Ocean the EGC-receiver appears out of order. Is it still possible to receive MSI-messages?

**A** yes, with the MF/HF-radio telex

FNMI

How is the Maritime Employer/Employee Register kept up to date?

**A** By reports prepared by the master/employer.

FNPN

To obtain "time and duration" after a telephone call with number 010-1234567 in the Netherlands, via an Inmarsat-terminal, one should enter after receiving the second dialling tone:

**A** 3731101234567#

FNBY

You are duty officer on "A" and you are observing "B" on your starboard side. "A" is a heavy loaded tanker, while the other vessel "B" is in ballast. You would like to increase the CPA and reduce the speed to stop your vessel. You are going into the chart room to check the position. The other vessel has engine

**A** It is possible since the ballasted vessel stops faster than the loaded vessel

FOBJ

During standstill liquid may condense in the crankcase or oil separator. Why is it important to heat up the oil before start?

**A** To avoid the compressor-oil to disappear from the crankcase during starting.

FOEV

When would you expect potatoes bought in Northern European ports to have poor storage quality?

**A** May



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FOGO

What is the function of a Ship's Register?

- A** Proves the name of the owners of shares in the ship and nationality

FOJV

All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/9.3).

- A** Ports in exposed position shall be closed and properly battened before the ship leaves the quay or berth.

FOJW

What is the book named: "Excerpts from the Norwegian Maritime Code of 24 June, 1994, No. 39"?

- A** An unofficial translation of "Den norske skipskontrolls regeler" leaving out some provisions, such as speed limits, relating to local Norwegian waters. (The authorised Norwegian original applies in cases of discrepancies etc.);

FOJW

What is the book named: "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"?

- A** An unofficial translation of "Den norske skipskontrolls regeler" leaving out some provisions, such as speed limits, relating to local Norwegian waters. (The authorised Norwegian original applies in cases of discrepancies etc.);

FOJW

What is the book named: "Excerpts from the Norwegian Ship Control Legislation"?

- A** An unofficial translation of "Den norske skipskontrolls regeler" leaving out some provisions, such as speed limits, relating to local Norwegian waters. (The authorised Norwegian original applies in cases of discrepancies etc.);

FOPP

The discharge arrangements for halogenated hydrocarbon total flooding systems shall be so designed that the minimum quantity of medium can be discharged in (based on the discharge of the liquid phase):

- A** 20 seconds or less

FOUN

A person slowly feel more sleepy and thirsty. The skin and slimhinner become very dry and there is a sweet taste of the breath. The glukose reaction shows positive. What kind of medicine will the person need as soon as possible?

- A** Insuline.

FOVI

What does this crane signal indicate?

- A** Lower the load

FOXW

What is the meaning of this symbol ?

- A** Start engine

FOYQ

Approximately how many days will fresh cucumbers usually last in cold storage?

- A** Approx. 18 Days

FPJV

Which one of the listed fire-extinguishing medium is most effective against an open oil fire?

- A** Foam.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FPRB

What is the meaning of this flag in the International code of signals?

- A** You are running into danger

FPRD

What is recognized as the main hazard when entering a void space?

- A** Lack of oxygen?

FPSU

Having collected evidence into a maritime incident, can the MAIB prosecute any person who may have caused the incident?

- A** No - their role is purely investigatory to establish the facts -not to apportion blame

FPUN

The main task of the HP valve in the HP fuel oil pump is:

- A** to stop fuel oil from getting back from the HP fuelpipes between the pump strokes.

FPUO

Sea area A3 is in maritime radio traffic a sea area:

- A** with the exception of the areas A1 and A2 within the range of a geostationary satellite of Inmarsat in which an uninterrupted alerting is possible

FPVH

What type of fire-extinguishing medium release is allowed for fixed gas fire-extinguishing installations? (SOLAS II-2/5.1.8)

- A** Manual operated release system only

FPWB

Identify this symbol:

- A** Emergency fire pump?

FPYN

Define the class of emission F3E :

- A** Radiotelephony - Frequency modulation

FQDR

Some 4-stroke engines are fitted with a rotorcap on the cylinder head valves. For what reason?

- A** Improve the scavenging surface function, increase the service time of the exhaust valve in the engine.

FQEL

What will happen with the interface in the bowl, if the flow is too high?

- A** Broken water seal.

FQEL

What will happen with the interface in the bowl, if the flow is too high?

- A** The interface will move outwards allowing oil to discharge from the water outlet.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FQJO

What is an effective means of measuring total dissolved solids in boiler water?

**A** Conductivity test.

FQLG

Which of the following figures drawn on the plane of the Meridian is correct for an observer in position Latitude 30°00 North; Longitude 15°00 West, when observing the sun on the meridian, if the sun's Declination is 15°00 South?

**A** Figure 4 is correct.

FQMB

What do you understand by the term Luffing?

**A** Making the crane jib move up and down.

FQQX

Which one of the listed requirements regarding radiotelegraph stations do not correspond to present regulations? A radiotelegraph station shall be provided with:

**A** direct access to the navigating bridge

FQUL

Give the meaning of the following symbol:

**A** lifeboat

FQVB

By the term "Stand by" the operator of a coast-station means that one should:

**A** Wait until the coast-station calls again

FQVC

In the traffic list a coast-station indicates that there is a radio telex-message for a vessel. To call for the message one should put in:

**A** after ga+ the radio telex-command msg+?

FQWV

Define the class of emission J3E :

**A** Radiotelephony - Single sideband suppressed carrier

FQYJ

\*There are 3 lifeboats on each side of a passenger liner engaged on international voyage. All these lifeboats are identical. What should be the total number of persons that can be accommodated in the 3 lifeboats on the starboard side altogether ?

**A** at least 50 % of N (\*)

FRFG

With an EPIRB:

**A** you must check the date that the battery must be replaced

FRGX

Which one of the listed requirements regarding liferaft equipment do not correspond to present regulations? The normal equipment of every liferaft shall consist of:

**A** thermal protective aids for the number of persons the liferaft is permitted to accommodate





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**FRGY** Indicate three important target data which can be received from radar tracking of other ships?

**A** Course, speed and risk of collision.

**FRKD** The turbocharger (constant pressure) is making "whoofing" noises. What might be the cause?

**A** Heavy seas from behind.

**FRKL** If you were in the upper casing of an engine room and you could smell "rotten eggs" and your nose becomes irritated, what would this be an indication of?

**A** A leak of exhaust gases from boiler or diesel engines.

**FRKL** If you were in the upper casing of an engine room and you could smell "rotten eggs" and your nose becomes irritated, what would this be an indication of?

**A** A leak of exhaust gas from a boiler or diesel engine exhaust.

**FROO** What is the minimum number of lifebuoys carried by a cargo vessel of more than 200 metres in length ?

**A** 14

**FRQV** The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to

**A** Best use of the survival craft facilities in order to survive.

**FRTI** \*The person in charge of a lifeboat :

**A** all of the above

**FRTI** \*The person in charge of a lifeboat :

**A** All of the below mentioned

**FRYG** The Master arrives on the bridge obviously under the influence of alcohol and states he is taking over the "con" of the ship. What actions should the Officer of the Watch (OOW) take in this situation?

**A** Take action to start the process to solve the situation, but do it diplomatically.

**FSBA** Why are duplex filters usually employed in the lubricating oil system of an auxiliary diesel engine?

**A** Changing of filter element would not interrupt the engine operation.

**FSFA** The relay of a distress-call by an RCC for coast-station begins with:

**A** MAYDAY RELAY (3x)



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FSGQ

Which means of communication is used by the NAVTEX system ?

**A** MF

FSIL

Testing of tank cleaning hoses. All hoses supplied for tank washing machines should be tested for electrical continuity in a dry condition prior to use. What are the maximum ohms per metre length?

**A** All the mentioned alternatives?

FSPX

What determines the condensation pressure in a direct cargo cooling plant?

**A** It is the seawater temperature and the purity of the vapour that gives the condensation pressure

FSYD

Why are hypochlorite based treatments used on some sea water cooling systems?

**A** Prevent biological growth

FSYD

Why are hypochlorite based treatments used on some sea water cooling systems?

**A** To prevent biological grown in the system

FTAV

A combined vessel (wet/dry) is equipped with 2 Gantry Cranes and certified to carry HC petroleum products. Crane No.1 is dedicated for hose handling and crane No. 2 has all functions interlocked when in "Wet cargo Mode". The vessel is at anchor having a cargo of naphtha onboard, Chief Eng. is

**A** Crane No.1

FTAX

The figure shows a silicon controlled rectifier with a RC circuit connected in parallel. RC circuit is often used in such connection. For which purpose?

**A** Protect the SCR against damage caused by high voltage spikes

FTAX

The figure shows a silicon controlled rectifier with a RC circuit connected in parallel. What is the purpose of the RC circuit ?

**A** Protect the SCR against damage caused by high voltage spikes

FTEC

Identify this symbol:

**A** Emergency generator?

FTFD

Vessels communicating directly with each other by mariphone, work:

**A** always simplex

FTGS

Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations?

**A** Not less than half the total number of lifebuoys shall be provided with self-ignition lights.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FTLQ

A DSC distress alert single frequency call attempt is awaiting acknowledgement:

- A** automatically repeated after 3 and a half to 4 and a half minutes

FTYA

\*When reasonable and practicable, how often shall rescue boats be launched with their assigned crew aboard and manoeuvred in the water?

- A** Every month

FUBR

The sensitivity of a communication receiver can be adjusted with:

- A** RF-Gain

FUKP

How much food per person is supplied in a lifeboat?

- A** Not less than 10000 kJ

FULL

How does one prevent liquid from getting into the cargo compressor?

- A** By using a liquid receiver on the vapour line between the cargo tank and the compressor

FULO

What is the principal shipping regulations governing Health & Safety

- A** The Health & Safety at Work Regulations (1997)

FUOG

Whilst underway, during the approach and in the process of double banking, or whilst transferring cargo whilst underway, the following signals from the IMOs Collision Regulations shall be displayed (unless local regulations differ) by both ships:

- A** Signals for vessels restricted in their ability to manoeuvre

FUOG

Whilst underway, during the approach and in the process of double banking, or whilst transferring cargo whilst underway, the following signals from the IMOs Collision Regulations should be displayed (unless local regulations differ) by both ships:

- A** Signals for vessels restricted in their ability to manoeuvre

FUPY

What is the correct definition of "let go"?

- A** Cast off the rope.

FUSE

You are leading a team fighting an interior fire. If you see the colour of the smoke changing from dark black to grey, what is the most probable reason for that change?

- A** The team is applying water and the temperature is decreasing

FUVP

What is the most important task after carrying out any major overhaul on a diesel engine?

- A** A search inside the crankcase for tools and rags.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FUVP

What is the most important task after carrying out any major overhaul on a diesel engine?

- A** A thorough check inside the engine to make sure all tools and cleaning rags have been

FUWK

Who shall check the ships medical supplies if the ship is in a foreign port, for example outside Europe?

- A** A pharmacy authorised to do so or if no such pharmacy is available, the master and an approved seamen's doctor

FVJY

A consequence of operating a centrifugal pump with the discharge valve closed would be:

- A** Pump will overheat

FVOQ

Which item among those below is included in the normal equipment of every lifeboat ?

- A** a manual pump for effective bailing

FVYA

On what kind of document shall working hours on board ships be kept?

- A** On a time sheet arranged by the Norwegian Maritime Directorate

FWBY

What do you understand by: Hydrographic vessel in position.....wide berth requested?

- A** This means: Emergency Position Indicating Radio Beacon

FWEU

What is the purpose of the cylinder head safety valve?

- A** To relieve excessive high pressure in the cylinder to protect the engine from being damaged

FWFP

Which of the following should NOT be used on an electrical fire?

- A** Water extinguisher.

FWHC

During synchronising, the incoming generator should be running slightly "fast" compared to the busbar frequency. This is to ensure that the:

- A** Incomer picks up as a generator

FWTR

Describe the documental process of engaging a new crewmember

- A** The master checks all the relevant documentation is valid and in date. He completes the seaman's details in section ALC 1a, ALC 1b or ALC 1c as appropriate. The seaman signs in section a) of the signature of seaman section of the appropriate ALC form.

FWVK

How many thermal protective aids are required to be carried on vessels with open lifeboats?

- A** One for each person on board who is not provided with an immersion suit



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

FWVL

How is the painter released from the lifeboat, once the boat is waterborne and ready to leave?

- A** Remove the toggle which will release the painter

FXAI

Which of the following detectors is preferred for detecting smoke from fire?

- A** Ionization type

FXAK

A self contained Breathing Apparatus should contain at least 1200 litres of air. How long should this last a normal person who is not carrying out hard work?

- A** 30 minutes

FXAK

A self contained Breathing Apparatus should contain at least 1200 liters of air. How long should this last a normal person who is not carrying out hard work?

- A** 30 minutes

FXCG

An optical fire detector head is activated by:

- A** The visible smoke that is a result of combustion

FXDX

What would be the correct understanding of the term "a ship is directionally unstable"?

- A** When you apply the rudder, she will continue to turn when the rudder is put amidship, and may even increase the rate of turn

FXGK

"RECEIVED MAYDAY" is used in a:

- A** receipt of a distress alert

FXIA

Which of the given options for the value of differential pressure across a lubricating oil filter for a medium speed diesel engine would indicate that the filter required cleaning?

- A** 0.2 Bar

FXIY

A « MRCC » is :

- A** A SAR coordinating centre

FXNN

During maintenance of a pneumatically operated, diaphragm actuated control valve the diaphragm is found to be split. Select, from the options given, a suitable material to use to make a temporary replacement if there is no spare diaphragm available.

- A** Natural rubber sheet of approximately the same thickness and elasticity as the original

FXTT

How often should an inflatable liferaft be serviced at an approved service station?

- A** Every 12 months



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- FXYN** Some 4-stroke engines are equipped with cooled fuel valves. Why is it so important to keep the coolants temperature correct?
- A** For cooling and to maintain correct viscosity on the fuel when injected
- 
- FXYP** What is the name of the reference manual, jointly produced by the International Maritime Organization and the International Civil Aviation Authority, which currently outlines the organization and management of search and rescue activities at sea?
- A** A vessel, other than a rescue unit, designated to co-ordinate surface search and rescue operations within a specified area.
- 
- FXYP** What is the name of the reference manual, jointly produced by the International Maritime Organization and the International Civil Aviation Authority, which currently outlines the organization and management of search and rescue activities at sea?
- A** - The International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual.
- 
- FYAL** Your diagram shows that you will need 2000m to stop your ship from full ahead in deep water. What will the stopping distance be in shallow water?
- A** Longer
- 
- FYCV** Numerous forms and documents are required for tanker operations. One of the following is not included:
- A** Climatic condition check list.
- 
- FYKG** Too high exhaust temperature in one cylinder becomes because of:
- A** Injection valve opening pressure is too low.
- 
- FYNQ** Which of the following actions will most effectively prevent fire in a cabin?
- A** Ensuring that all persons avoid smoking in bed.
- 
- FYRU** On what criteria is the Threshold Limit Value (TWA) based?
- A** The gas is harmful when the concentration is 5 parts per million or more.
- 
- FYXS** The restriction of overtime work is that no person shall be required, under normal circumstances, to work more than:
- A** 14 hours a day
- 
- FYYN** A maritime inquiry abroad shall be heard by:
- A** The Norwegian Consular Court concerned.
- 
- GAAK** Inmarsat Telex Service code '33' can be used:
- A** when technical problems are experienced with the Inmarsat-terminal



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GAPO

Which of the following statements regarding a centrifugal pump is correct?

**A** It is important that the rotation direction is correct to avoid dry running.

GAPQ

In general, what is the best extinguishing agent to put out a class A fire?

**A** Water

GAQH

How often should normal testing of the cooling water be done?

**A** Once a week.

GAQJ

What is the meaning of the term "Steady as she goes" when acting as helmsman?

**A** Keep steady course.

GATR

Which function is this circuit performing?

**A** Differentiating

GATX

Which item among those below is included in the normal equipment of every rescue boat ?

**A** a binnacle containing an efficient compass

GBCC

\*Monoammonium phosphate used as a dry powder can be effective on:

**A** solid, liquids and gases

GBCC

\*Monoammonium phosphate used as a dry powder can be effective on what type of fire?

**A** solid, liquids and gases

GBCC

\*Monoammonium phosphate used as a dry powder can be effective on which of the following type of fire?

**A** solid, liquids and gases

GBHB

Give the meaning of the following symbol:

**A** muster station

GBHD

Which statement(s) is true of a gasoline spill?

**A** It is visible for a shorter time than a fuel oil spill



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GBIW

During loading of oil, you notice oil on the water near your vessel. What should you do first?

**A** Stop loading

GBNA

On area A4 the function "Transmission and reception of signals for locating" is mainly based on:

**A** the use of SART transponders

GBOK

What are the NAVTEX messages categories which cannot be suppressed ?

**A** A, B, D

GBPL

What is the correct understanding of the term "bank effect"? If a ship was approaching the bank at an angle, what would be the effect on the ship?

**A** The vessel's bow is pushed away from the nearest bank

GBQH

A ship is sold from one British owner to another, would this require the ship to be re-measured?

**A** Not re-measured, but re-registered

GCCD

Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

**A** Before hot work or welding in tanks is started, a complete set of duly signed check lists and certificates shall be provided.

GCDS

Which of the following items DO NOT have to be noted in the Oil Record Book ?

**A** Quantity of ballast discharged from segregated ballast tanks

GCDV

Which of the 4 alternatives shows a NPN bipolar transistor?

**A** Figure 3.

GCEQ

For how long time must the printout from the Oil Discharge Monitoring Equipment (ODME) be retained onboard?

**A** Three years

GCFL

A ship equipped to sail in sea area A2 has at least:

**A** a MF radio telephony installation

GCGE

What types of gases are not allowed as fire-extinguishing medium for fixed gas fire-extinguishing system aboard ships? (SOLAS II-2/5.1.1)

**A** Toxic gases





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- GCLI** For how long time should a VHF survival craft transceiver be able to operate on its batteries ?
- A** 8 hours
- 
- GCOU** In traffic via Inmarsat-A, the telex connection can be disconnected by entering:
- A** .....
- 
- GCRA** Which IMO convention takes care of the human safety at sea ?
- A** he SOLAS convention
- 
- GCSV** What do we mean with ESD on a gas carrier?
- A** ESD is Emergency Shut Down and the release buttons are located different places onboard
- 
- GDCT** Read this text and answer the question: To whom should training in personal survival techniques be given?
- A** To all seafarers.
- 
- GDDY** When measuring level of liquids with a differential pressure meter, the name of the sensing device is:
- A** Pressure diaphragm
- 
- GDFK** How is the quantity of fuel oil, in HP fuel oil pump adjusted when the engine is running ?
- A** Turning the plunger piston according to engine load.
- 
- GDHA** Your vessel "A" is bound for the Pilot station. Vessel "B" will be picking up pilot before you. According to your observation you are getting too close to vessel "B" and Pilot boat "C". What will you do to avoid a collision?
- A** Full astern and drop the anchor
- 
- GDHA** Your vessel "A" is bound for the Pilot station. Vessel "B" will be picking up the pilot before you. According to your observations you are getting too close to vessel "B" and Pilot boat "C". What would you do to avoid a collision?
- A** Full astern and drop the anchor
- 
- GDHX** What is required to be done with the OLB when the Crew agreement is closed?
- A** Sent to RSS within 48 hours of closure
- 
- GDJK** Define the class of emission F1B :
- A** Radiotelex and DSC - Frequency shift keying of carrier with error correction



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GDNR

When we are taking "ullages", what are we really doing?

- A** Measuring distance from cargo level to ullage point

GDQB

For vessels carrying toxic products, how many sets of complete safety equipment should be on board ?

- A** Sufficient, but minimum 3 complete sets.

GDRC

What will apply when loading Carbon Disulphide ?

- A** A water pad should be maintained during loading, transit and discharging. In addition a inert gas pad should be maintained during transit.

GDRY

The fire point is

- A** The minimum temperature at which a combustible gives off vapours that may burn in contact with oxygen in air, and at which combustion persists once the source of ignition has been removed

GEDQ

How often must the Emergency Steering Gear be tested, and how is this information recorded in the OLB?

- A** Every three months. Details of test with signatures of Master and witness

GEFB

You want to send a DSC distress alert via the HF-band. You prefer the:

- A** 8 MHz band

GEGA

On board an accident happened. Urgent radio-medical advice is needed. We choose the category:

- A** urgency

GELU

You are on a multiple-product chemical tanker and will carry cargoes of butyric acid, propylene oxide, and octyl alcohol. Which statement is true?

- A** Propylene oxide may not be stowed in a tank adjacent to butyric acid.

GEPB

1MHz is equivalent to :

- A** 1000 000 Hz

GERs

Which class of emission is used for MF radio telephony transmissions ?

- A** J3E

GESH

Who is responsible for keeping the required official publications onboard?

- A** The master.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- GEYG** When commence discharging from two tanks loaded 99% through same shore line, what should the procedure be ?
- A** Start slowly and closely monitor to ensure that discharging is actually taking place in order to avoid overflow. When the level is below 98% the tank overfill alarm must be reset.
- 
- GFAW** Conventions, codes etc. are implemented in the provisions in question. Which method of implementation of international codes is indicated by the letter R?
- A** Codes, MSC resolutions etc which are implemented in the regulations and which are expressly mentioned.
- 
- GFLQ** When stowing cargo samples, they should be kept in a place which, in addition to being cell-divided to prevent bottles from shifting at sea is:
- A** Made of material resistant to the different liquids to be stowed and also well ventilated?
- 
- GFLW** The output pressure of a diesel engine lubricating oil pump is regulated by:
- A** A relief valve.
- 
- GFPU** What is a "cargo plan", when applied to a ship?
- A** The wheels of hatchcover No. 7 came out off their tracks
- 
- GFPV** How should gas bottles be stored?
- A** In two separate rooms outside the engine room space.
- 
- GFPW** A DSC-message of the "safety" category is received by another vessel on 70. Conform to the GMDSS rules, for the continuation of the safety traffic, change to VHF-channel:
- A** 16
- 
- GFPW** A DSC-message of the "safety" category is received from another vessel on VHF channel 70. Conforming to the GMDSS rules, for the continuation of the safety traffic, you must change to VHF-channel:
- A** 16
- 
- GFQX** Which one of the listed requirements for passenger ships regarding personal life-saving appliances do not correspond to present regulations?
- A** On all international voyages (except on short voyages) all lifejackets shall be fitted with a light and a smoke signal
- 
- GFRW** What is the purpose of radar tracking of other ships?
- A** To receive information about ships in the vicinity.
- 
- GFSP** You will be serving fried fish for dinner. Which of the following procedures would you choose?
- A** Prepare it immediately before serving.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- GFUA** The revolutions on the turbocharger have increased during the night with unmanned engine. Could this be caused by:
- A** The current and wind are holding the vessel back.
- 
- GGUQ** On board you have to switch from transmitting to receiving and vice versa. The shore station can transmit and receive simultaneously. You are working with two different frequencies. This method is called:
- A** semi-duplex
- 
- GHAV** What is the correct understanding of the term "boat drill"?
- A** Training in lifeboat handling.
- 
- GHAX** Under what circumstances would you remove guards and safety devices from machinery?
- A** Sometimes it is necessary to facilitate overhauling.
- 
- GHFP** If your vessel is inerting during discharging, what is the maximum allowed discharge rate ?
- A** 80 % of the Inert gas generator's capacity.
- 
- GHFX** Which of the following could be the possible cause of too high cargo condenser pressure?
- A** Incondensable vapour in the cargo and shortage of refrigeration.
- 
- GHGM** Many large 2 stroke marine diesel engines are equipped with an auxiliary scavenge air blower. What is the purpose of this equipment?
- A** during manoeuvre and manoeuvre speed condition (arrival and departure)
- 
- GHGM** Many large 2 stroke marine diesel engines are equipped with an auxiliary scavenge air blower. What is the purpose of this equipment?
- A** To provide combustion air at start up, during manoeuvring and low load running when the turbocharger delivery is insufficient.
- 
- GHHH** Where do we have provisions relating to survey and detention of ships in the Seaworthiness Act
- A** In chapter IV
- 
- GHKS** Your ship is equipped with 2 different types of grabs, small and large, with cubic capacities of 5m<sup>3</sup> and 10m<sup>3</sup> respectively. Maximum crane load for grab service is 16 tons including grab weight. You are going to discharge a dry commodity having a stowage factor of 1,4 T/m<sup>3</sup>. What will be the suitable grab for this
- A** Small.
- 
- GHLS** Which of the following is a ship MMSI ?
- A** 227530000



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GHND

What are the tricing pendants made for?

- A** They automatically prevent any gap between the ship side and the lifeboat at the first stage of its launching

GHOT

The correct working of an SART can be tested by means of:

- A** the test function on the SART

GHQV

Who shall notify the cleaning up contractor (OPA-90)

- A** Qualified Individual

GHUM

For how long must the printouts from the ODME be retained?

- A** Yes.

GHYD

The decision to abort a proposed or ongoing ship to ship mooring or cargo transfer operation rests solely with:

- A** Either of the Sen.Off.Deck if he feels the situation is heading out of control due to bad weather, bad manoeuvring, or for any other reason.

GHYX

When should gangway nets be rigged?

- A** Whenever the gangway is rigged.

GIDF

Which of the following is true when comparing Plate Type with Shell and Tube Type Heat Exchangers?

- A** Physically smaller for the same capacity.

GIGG

What does the abbreviation STCW stand for?

- A** The International Convention on Standards of Training, Certification and Watchkeeping of Seafarers

GIHI

Which of the following services is not provided by INMARSAT B:

- A** Safetynet

GIRD

\*In addition to cargo and machinery spaces, which other space, if any, has to be fitted with an approved fixed fire-extinguishing system on a cargo ship where method of protection "I C" has been adopted ?

- A** No fixed extinguishing systems are generally required for any other spaces protected according to this method

GITV

What is the main purpose of routine testing of cooling water?

- A** To ensure that the correct levels of chemical treatment are maintained at all times



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GITV

What is the main purpose of routine testing of cooling water?

- A** To ensure that the proper residuals of treatment chemicals, as specified, are maintained at all times

GJCX

Which of the following frequencies is used by the NAVTEX system ?

- A** 518kHz

GJHG

What is the maximum oil content allowed to call it clean water?

- A** 15 ppm

GJKN

Water is the extinguishing agent which is the most widely employed and its action as an extinguishing agent is due to a combination of the following phenomena:

- A** Cooling, smothering and dispersion

GJSR

What has the cadet been ordered to do?

- A** He is supposed to paint the evaporator and use a brush to apply the paint

GJVG

According to ISGOTT, what is non-volatile petroleum?

- A** Carbon monoxide, nitrogen dioxide, nitric oxide, sulfur dioxide?

GKDT

Indicate the correct name for the part marked on the sketch:

- A** Piston

GKHF

Which certificate is issued in accordance with the IGC code?

- A** It is the Certificate of Fitness that is issued in accordance with the IGC code

GKLC

Welding and burning are two operations which give the highest risk of a fire on board ship. Which of the following safety precautions may be regarded as the most important in order to minimise this particular risk?

- A** The place of welding-work to be cleaned and all unnecessary objects to be removed.

GKOR

When overhauling the cylinder covers on a modern 4-stroke engine, is it important not to interchange inlet and exhaust valves?

- A** Important due to different material and working conditions

GKPK

The vessel is steaming off the coast when the engine room informs the bridge it must stop engines immediately. Shortly afterwards they informed the bridge they would need a least three hours to fix it. Which of the following actions would be the most suitable taken by the bridge?

- A** As soon as possible determine how the ship is drifting to establish if there is any danger



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GKPM

On a fire patrol at night you see smoke coming from a closed cabin door. What action should you take first?

- A Activate the nearest fire alarm button and advise bridge of the location of the fire.

GKQH

What does the Captain mean?

- A Set the engine to dead slow ahead, and change the course 10 degrees to port

GKRE

What kind of information can be achieved from a NAVTEX?

- A Navigational warning.

GKVI

On area A4 the function "Transmission and reception of on scene communications" is mainly based on:

- A the use of MF and/or VHF R/T

GKXR

\*Which of the following fittings shall be provided to all lifeboats:

- A a tiller permanently linked to the rudder or removable if the lifeboat has a remote steering mechanism

GKYL

What are the quickest and most certain way of keeping a look out in clear weather?

- A Take a visual search of the sea around the ship

GLIP

Rule 12 of the International Collision Regulations prescribes the action to be taken by a sailing vessel when meeting another sailing vessel. This depends on the direction of the wind relative to each vessel. In the situation shown here, which sailing vessel (A or B) must keep out of the way of the other?

- A A keeps out of the way of B

GLJK

What does the abbreviation TLV mean?

- A Threshold Limit Value.

GLJL

A clogged / dirty lube oil filter can be detected best by:

- A The pressure drop across the filter.

GLKF

Which of the following detectors will you choose for detecting torque of a steel shaft?

- A Strain gauge

GLKG

\*In addition to personal equipment a complete set of firemans outfit also comprises a breathing apparatus and a fireproof lifeline. How many complete sets of firemans outfit is to be carried by all ships?

- A Two sets or more depending on the type and the size of the vessel



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GLKH

What is the minimum number of firemans outfits that must be provided on a tanker?

A 4

GLLG

\*What is the minimum number of portable fire extinguishers that must be provided for the accommodations, service spaces and control stations on ships of 1000 gross tonnage and upwards?

A 5

GLRY

Which word will precede an urgency message ?

A PAN PAN

GLWT

How many lifejackets shall it be in a passenger cabin?

A Same number as beds in the cabin

GLYL

What is the correct name of the part highlighted in the sketch?

A Crosshead

GMHS

Having a CO2 alarm during normal working hours, what immediate action should be taken?

A Get out of the engine room as soon as possible.

GMIR

The engine room is equipped with regular fire hoses and nozzles. What is important to observe when using water as an extinguisant in the engine room?

A All the mentioned alternatives.

GMJM

During an unmanned period on a UMS vessel the "low water level" alarm for the jacket cooling water system expansion tank activates. What action would you take as duty engineer?

A Answer the alarm, top up the tank and check the system for leakage before resuming unmanned operation.

GMJM

During an unmanned period on a UMS vessel the "low water level" alarm for the jacket cooling water system expansion tank activates. What action would you take as duty engineer?

A Correct water level is obtained by refilling the cooling system, and the entire system is checked for leakages

GMLA

This graphical symbol is a logic gate. Which gate?

A AND

GMOE

Among the additives used to improve the effectiveness of water in the fight against fire there are the moisturing ones. What is the task they perform?

A They reduce the surface tension of water





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GMOK

You are starting to get low on water in the lifeboat. What should you do?

**A** Collect rain water

GMQY

Give the meaning of this symbol:

**A** lifebuoy with line

GMUY

\*Shall any required automatic sprinkler be capable of immediate operation without action by the crew?

**A** Yes

GMVY

To what pressure will a new length of cargo hose be tested by a manufacturer prior to its supply to a vessel for service onboard?

**A** 1.5 times designed working pressure, but not more than two-fifths of its bursting pressure.

GMVY

To what pressure will a new length of cargo hose be tested by a manufacturer prior to its supply to a vessel for service onboard a chemical tanker?

**A** 1.5 times designed working pressure, but not more than two-fifths of its bursting pressure.

GNDL

A vessel where the engine personnel are in charge of all technical installations on board are due for a voyage to a cold climate area. Are any special precautions to be implemented with regard to fireline/pumps and use of same?

**A** All the mentioned alternatives.

GNDL

A vessel where the engine personnel are in charge of all technical installations on board is due for a voyage to a cold climate area. Are any special precautions to be implemented with regard to fireline/pumps and use of same?

**A** All the mentioned alternatives.

GNEL

On area A1 the function " Reception of shore to ship distress alerts" is mainly based on:

**A** the use of VHF DSC

NGGS

What are the permissible loads on tank top and tweendecks?

**A** As per Builders' specification?

GNHN

The time indication 121310z means in maritime radio communication:

**A** 12th day, 1310 hours UTC

GNXL

Can a ZENER BARRIER be installed in a hazardous area?

**A** No, as only the output from the barrier is intrinsically safe this is not allowed.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GOCO

OPA-90 notification requirements.

- A** Notify as soon as you have knowledge of any spill, or threat of a spill

GOYB

You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. How will you act just after the collision?

- A** - Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GOYB

You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. How will you act just after the collision?

- A** Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GOYB

You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. What will your actions be following the collision?

- A** - Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GOYB

You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. What will your actions be following the collision?

- A** Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GPAT

Which type of pumps are normally used on liquefied gas carriers for discharging cargo?

- A** It is centrifugal pumps that is normally used on gas carriers

GPAT

Which type of pumps are normally used on liquefied gas carriers for discharging the cargo?

- A** It is centrifugal pumps that is normally used on gas carriers

GPGQ

What routine inspections must the master carry out

- A** Crew accommodation and provisions and water must be inspected on a weekly basis

GPLP

Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). During preparations for welding or hot works, the following item shall always be checked:

- A** Gas levels measured in tanks where work is to be carried out.

GPMK

What would be the most probable cause of high temperature readings for the bearings in a diesel engine?

- A** Lubricating oil pressure is too low.

GPPA

The arrival ballast water on non SBT vessels must contain maximum 15ppm (parts pr. million) of oil to fulfil the regulations in force. How many ppm is 1% by volume.

- A** 10000 ppm.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GPPO	In the chemical trade the acceptable means of cargo line segregation in case of two non-compatible products is:
A	By double blank flanges with a drain between them?
GPBW	When starting air is applied to a diesel engine the engine fails to turn over but is seen to oscillate back and forth. What is the most likely cause of this problem?
A	Any of the alternatives.
GQQR	Why do we have to have an International Shorecoupling onboard? To be able to ...
A	Connect the firelines ship/shore
GPRM	In what HF-band is long distance transmission possible when both stations are located in Darkness:
A	8 MHz
GQAU	What is very important before starting a steam driven piston pump?
A	That all the valves on the delivery side are open before starting.
GQJB	What type of vessel is this?
A	A vessel of more than 50m in length engaged in pushing a barge/barges ahead
GQPU	Is there any procedure prior watercleaning of coated tanks when last cargo is a hydrolysable product i.e. VAM, Acrylonitrile ?
A	Venting of the tank must be carried out after cargo discharge to ensure removal of any cargo which may have been absorbed into the coating system.
GQQR	Your vessel has been involved in a collision. As master you have to write about the accident in the log-book. In order to only write the facts in the log-book, which of the following procedures do you find most correct?
A	Find out from officers and crew who have been in connection with the collision, what they have seen, so that detailed and complete description of the sequence of events can be entered in the log-book.
GQSB	The following DSC-message was received:(see original )They need to listen on VHF-channel:
A	16
GQTU	Is it allowed to gas up LPG on inert gas atmosphere?
A	We are allowed to gas up LPG on inert gas if the charterer do not instruct the vessel to use nitrogen
GRDU	The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to
A	Correct donning of life-jackets.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GRHB

The deaerating heater is used in

- A** the closed-type feed-water system

GRLM

You are on a chemical tanker carrying benzene in bulk. Which statement is TRUE?

- A** Personnel working in regulated areas must use respirators

GRPI

What advantages does the eye have over the radar?

- A** Can identify small targets

GRPO

You receive via the 8 MHz a DSC distress alert. The received DSC message is however distorted. The MMSI as well as the position are illegible. After listening at the 8 MHz telephone distress frequency, nothing is heard. This is because:

- A** telephone signals in the same frequency band are generally weaker than DSC signals

GRTS

Too low oil flow in the fuel oil separator (ALCAP) oil outlet line is caused by:

- A** Bowl opens unintentionally during operation.

GRWD

When a Master takes the leadership in approaching a problem, Must his first action be a decision that will directly solve the problem?

- A** Not necessary, he shall use all available resources. He should resist the temptation to step in and do it all by himself

GSCW

Which PH - values are recommended in a product used for washing a polished floor?

- A** 38205

GSCY

What does this two flag hoist signal indicate?

- A** I am in distress and require assistance

GS DT

Who is responsible for the vessels radio station and mandatory radio routines?

- A** The master.

GSES

The rescue quoit of a liferaft is attached to a buoyant line whose length is at least:

- A** 30 m

GSFP

\*Which one among the following information shall be marked on the container of an inflatable liferaft:

- A** maximum permitted height of stowage above waterline



## CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

- GSQ L** Which one of the listed requirements regarding containers for inflatable liferafts do not correspond to present regulations? The liferaft shall be packed in containers that are:
- A** completely watertight
- 
- GSWB** A polarisation of a radio wave is determined by:
- A** position of the aerial
- 
- GSWF** Where can you find the requirements regarding the number of persons required on duty during oil transfer ?
- A** Oil Transfer Procedure manual
- 
- GSXA** What is meant by settling in slop handling?
- A** Separation of water and oil.
- 
- GTDU** Which law applies to NIS-ships?
- A** Norwegian law unless otherwise provided in or pursuant to a statute?
- 
- GTGB** \*B Class divisions in ships are constructed so that they are capable of preventing the passage of flame to the end of a standard fire test held for:
- A** 30 minutes
- 
- GTJJ** Must you be certified to be a lifeboat-commander?
- A** Yes, you must attend to a course held by certified personnel, and then be certified by national authorities (NMD, USCG, etc)
- 
- GTJL** Can an agreement of employment for service on a NIS ship be verbal or has it to be confirmed in writing?
- A** The company has to ensure that an agreement is always confirmed in writing
- 
- GTQE** The grabline of a lifebuoy has a length of:
- A** 4 times the outer diameter of the lifebuoy
- 
- GTRA** Some equipment may be marked with the following symbol: What does it mean?
- A** Intrinsically safe.
- 
- GTRA** Some equipment may be marked with the following symbol: What does that mean?
- A** Intrinsically safe.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- GTSU** You are on a vessel 60 nautical miles off the coast of the nearest land, Algeria, in the Mediterranean Sea. Are you allowed to dump empty glass bottles overboard ?
- A** No, glass bottles can not be dumped overboard
- 
- GTTS** What is the best way to avoid pollution from small oil-spills aboard a ship?
- A** Contain any oil-spill onboard the ship
- 
- GTVX** What will You do if the PH-value in the boiler water is over 11?
- A** Blow the boiler and renew water until the PH-value is normal again.
- 
- GTWA** Which of the following options would be a typical differential pressure setting for a main engine slow down in the event of jacket cooling water system low flow?
- A** 0,2 Bar
- 
- GTWA** Which of the following options would be a typical pressure setting for a main engine slow down in the event of jacket cooling water system low pressure?
- A** 0,2 Bar
- 
- GTWW** On the air compressors crankcase there is a small valve that lets off overpressure. What do we have to do if this valve is letting of pressure and oil moisture ?
- A** Overhaul the compressor unit.
- 
- GUGU** Is it allowed to gas up LPG on inert gas atmosphere?
- A** We are allowed to gas up LPG on inert gas if the charterer do not instruct the vessel to use nitrogen
- 
- GUNK** The cargo hold air-circulating system normally permits 2 speeds ( 45 and 90) air-changes on the cargo hold air fans. Which air-speed will You use when You carry banana cargo?
- A** 90 air-changes.
- 
- GUNQ** What could be the reason to knocking in the engine?
- A** The gudgeon pin, big end-, or main bearing clearances is too large.
- 
- GUNS** What does the abbreviation ABC mean in first aid?
- A** Air, Breathing, Circulation.
- 
- GUON** What is a Gangway?
- A** Portable bridge between ship and shore.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GUPA

How often should greasing of pump bearings take place?

- A As specified in the vessel's Planned Maintenance System, (Ref. Makers Instruction).

GVGW

\*Which one of the following materials belong to Class 9, according to the IMDG code?

- A Dry ice

GVIO

Unfortunately a fish hook has entered someones finger. The barb of the hook is even inside the skin. How to remove the fish hook?

- A Push the hook through the skin until the barb protrudes, then cut the hook between the barb and the skin and gently withdraw the hook

GVIO

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- A Push the hook through the skin until the barb protrudes, then cut the hook between the barb and the skin and gently withdraw the hook.

GVIP

Why is it important to have min. 7 bar (100 PSI) back pressure at the ships manifold?

- A Charterers requirement in this example.

GVKX

A standard self-contained breathing apparatus is capable of functioning for at least

- A 30 minutes

GVRS

The purpose of the "flame scanner" on the boiler is

- A shut off the oil flow if the flames goes out

GVVC

The sound level of the telephone in the tele-microphone on the panel of e.g. an MF/HF radio-telephony installation is adjusted with:

- A is fixed by manufacturer

GVWW

Poster or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which one of the following requirements has to be included ?

- A give relevant instructions and warnings

GVWW

Poster or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which one of the following requirements has to be included?

- A give relevant instructions and warnings

GVYK

What is the name given to a devastating explosion that may occur when a rigid container containing a liquefied gas is exposed to a very high \*temperature?

- A BLEVE



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GWCT

A ship moving through heavy seas is affected by the water pressure at the bows causing an effect known as "Panting". What structure in the forward region of the ship combats the effects of Panting?

A Panting beams and stringers

GWDJ

How can we maintain necessary NPSH?

A By control of liquid flow

GWGP

Which one of the listed requirements regarding the stowage of a survival craft corresponds to present SOLAS regulations? Each survival craft shall \*be stowed:

A In a secure and sheltered position and protected from damage by fire or explosion

GWID

Give the meaning of the following symbol

A EPIRB

GWKU

How is the painter attached to the lifeboat released once the boat is waterborne and ready to leave?

A Remove the toggle which will release the painter

GWMN

The word SCHIP is spelled conform the international phonetic alphabet:

A Sierra, Charlie, Hotel, India, Papa

GWNI

During bilge pumping operations the pump suction gauge indicates a high vacuum. What is the most likely cause of the high vacuum reading?

A A glogged bilge strainer

GXAX

Can slop tanks be used for the carriage of oil and are they therefore included in the total cargo capacity of an oil tanker?

A Yes it is.

GXFW

Which item among those below is included in the normal equipment of every lifeboat ?

A one daylight signalling mirror

GXLQ

From the options given, choose the one most likely to result in a high exhaust gas temperature in one cylinder of a diesel engine.

A The inlet- and exhaust valve tappet clearance is off adjustment.

GXLQ

From the options given, choose the one most likely to result in a high exhaust gas temperature in one cylinder of a four stroke diesel engine.

A The inlet- and exhaust valve tappet clearance is off adjustment.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

GXNG

Where do we find information about the ships fire preparedness?

- A** Information about the ships fire preparedness do we find in the alarm instruction

GXQS

While alongside at a repair berth a new section of seawater pipe has been fabricated in a shoreside workshop from drawings supplied by the vessel. During fitting of the pipe by ships engineers it is noted that the pipe is too short leaving a gap of about 8mm between the flange faces. What action should be

- A** The pipe should be returned to the shoreside workshop for modification or to be remade to the correct dimensions.

GXRD

\*What maximum suction head can be expected from a fire pump?

- A** Approximately 5 metres

GXXF

Several cargoes require determination of pH values (acidity) which is often a measure of quality or degradation of cargo such as animal or vegetable oil during transport. A neutral solution has a pH value of:

- A** 7

GXYD

What is happening here?

- A** The fishing vessel keeps out of the way of the power driven vessel restricted in her ability to manoeuvre

GYAW

You are drifting with a loaded VLCC in open sea. You have observed the direction and rate of drift. Can you do anything to change the direction and rate of drift?

- A** - Use the Bow Thrusters to change the ships head and monitor any changes in the drift

GYAW

You are drifting with a loaded VLCC in open sea. You have observed the direction and rate of drift. Can you do anything to change the direction and rate of drift?

- A** We can trim the ship by stern as much as possible. This will most likely change the direction and rate of drift

GYBP

Mention three ways of adjusting a centrifugal pump's delivery capacity.

- A** Throttling the delivery valve, adjust the RPM, by-pass.

GYLM

Indicate the correct name for the tool on the sketch:

- A** Monkey wrench

GYMI

What are the functions of a flag state administration?

- A** They have responsibility for setting, monitoring and enforcing standards of safety and pollution prevention on vessels flying the countries flag

GYQI

In a low pressure auxiliary boiler, what would be considered to be the maximum allowable chloride level of the boiler water?

- A** 300 PPM.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- GYVK** In pumprooms and pipe tunnels "flameproof" electric light fittings are generally fitted. This means that:
- A** Gas may enter, but even if an explosion takes place the fittings is so strong that the explosion will be contained within it and will not be blow out?
- 
- GYVO** What is the potential effect on a steam boiler of having calcium based compounds present in boiler water and proper water treatment is not carried out?
- A** Loss of alkalinity, corrosion of boiler metal surfaces, and loss of phosphate reserve in the boiler.
- 
- GYVQ** Whilst proceeding along a narrow channel the vessel astern wishes to overtake you on your starboard side and gives the appropriate sound signal. Assuming that you are in agreement with this, what sound signal should you make?
- A** One prolonged, one short, one prolonged and one short blast
- 
- GYVS** What is the correct name of the part highlighted in the sketch?
- A** Camshaft
- 
- HACL** What kind of gas measuring equipment is required to be on board when loading Ethanol ?
- A** Equipment for detecting flammable vapours.
- 
- HADH** If there is never any water in the lubricating oil, why must we add water to the self cleaning separator bowl
- A** To minimise oil losses and prevent the sludge getting too hard
- 
- HAEF** The condenser in an evaporator is cooled by:
- A** Seawater
- 
- HAFF** How would you establish if a health certificate issued by a foreign country was acceptable to the British authorities?
- A** Check in appendix 2 of MGN 1
- 
- HAJA** Prior to the lunch break, the Engineer on Duty observes that the operating generator set has an output of 90%. With regard to operation of the generator, what is the - most important - assumption(s) for him to check before switching to UMS-mode?
- A** That a secondary auxiliary set is switched to automatic standby mode
- 
- HANH** Where in the personal computer is the BIOS system located?
- A** On the motherboard
- 
- HANI** The temperature control system of the crankshaft bearings of the main engine indicates high temperature. What would be the correct action to be taken with regard to opening and checking of the crankcase?
- A** Stop the engine immediately and keep the luboil pump running for at least 20 minutes before opening the crankcase?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HAPC

How shall you treat the dishwashing machine?

- A** It shall be cleaned daily and oiled and inspected regularly.

HAQP

How would you control cargo hold bilges?

- A** By pumping test of each bilge before loading?

HARO

Use Kirchoffs current law and Ohms law to calculate the value of the current  $I$  for this circuit.

- A** 22 A

HARQ

Define the class of emission H3E :

- A** Radiotelephony - Single sideband full carrier

HAUF

All passenger ships are divided into vertical 'zones'. What is the purpose of this?

- A** This is firezones which can be divided from eachother with firedoors. If a fire start in one zone, all firedoors in front and aft of the fire will be closed from the bridge to stop the smoke and fire from spreading.

HAWM

How often must a crew member participate in a fire drill?

- A** Once every month

HAYE

Ordinary toilet soap is an:

- A** Alkaline cleaner.

HAYG

If on low-power, VHF channels 15 and 17 may be used for:

- A** on board communications (intra-ship traffic)

HBGO

In which ships are one water fog applicator required for each pair of breathing apparatus? (SOLAS II-2/17.3.2)

- A** Passenger ships carrying more than 36 passengers

HBJX

You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in a collision with a sail boat and there are no signs of life in the water. What would you do?

- A** - Alarm the rescue centre and commence searching for any survivors

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**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

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- HBOC** This circuit consists of a voltage source  $V$ , a change-over switch  $S$ , a resistor  $R$  and an inductor  $L$ . The figures 1 to 4 show possible changes in the voltage  $V(L)$  in case the switch  $S$  is suddenly shifted from position 1 to 2 at time  $t = 0$ . Only one of the diagrams is correct. Which?
- A** Figure 1
- 
- HBOC** This circuit consists of a voltage source  $V$ , a change-over switch  $S$ , a resistor  $R$  and an inductor  $L$ . The voltage/time figures 1 to 4 show possible changes in the voltage  $V(L)$  in case the switch  $S$  is suddenly shifted from position 1 to 2 at time  $t = 0$ . Only one of the diagrams is correct. Which?
- A** Figure 1
- 
- HBQV** Does the employer have to give a reason for a notice of termination?
- A** Yes, if the seafarers demands it
- 
- HCAT** During routine checking of an engine following start up it is discovered that the start air pipe to one of the cylinders is hotter than normal. What is the likely cause of this problem.
- A** A sticking start air valve.
- 
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- A** A sticking start air valve.
- 
- HCBI** Fire protection for tankers of 20.000 dwt and upwards consist of different fixed systems and arrangements. Which of the following systems and arrangements do not correspond to the present regulations?
- A** A fixed sprinkler system at the cargo manifold
- 
- HCBO** Which of the following would be considered pollution under the US water pollution laws?
- A** All of the mentioned



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- HCBO** Which of the following would be considered pollution, when discharged overboard, under the US water pollution laws?
- A** All of the mentioned
- 
- HCCJ** What HF-band is generally suitable for long distance transmission if one of two stations is Located in twilight
- A** 12MHz
- 
- HCFX** How can an approximate value of the initial transverse Metacentric Height (GM) be found from the Curve of Statical Stability (GZ curve)?
- A** Drawing a tangent to the curve through the origin and erecting a perpendicular through
- 
- HCMG** What are "contractual clauses"?
- A** Part ALC 1d of the crew agreement, giving details of specific terms and conditions for seafarers
- 
- HCQM** Which one of the following appliances is allowed to burn an oil fuel, the flash point of which may be a little bit lower than the one used for the main \*engine?
- A** The emergency generators
- 
- HDAT** For a large decrease in the specific gravity of the oil, the gravity disc hole diameter should be:
- A** Increased.
- 
- HDBM** What is the correct handling to mops and cloths when cleaning is finished?
- A** Wash thoroughly and hang up for drying.
- 
- HDCJ** Which item among those below is included in the normal equipment of every lifeboat ?
- A** one whistle or equivalent
- 
- HDFT** Which section number does the following provision have in the Act concerned; "Norwegian law applies to every ship in the Norwegian International Ship Register unless explicitly otherwise provided in or pursuant to a statute"
- A** Section 3.
- 
- HDFT** Which section number does the following provision have in the Act relating to a Norwegian International Ship Register concerned; "Norwegian law applies to every ship in the Norwegian International Ship Register unless explicitly otherwise provided in or pursuant to a statute"
- A** Section 3.
- 
- HDJV** What can be the result of public supervision of maritime service of seafarers?
- A** It could be any of the alternatives listed.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HDKP

How much food per person is supplied on a liferaft?

- A** Not less than 10000 kJ

HDOT

Which of the following two digits codes is used to obtain medical assistance ?

- A** 38

HDPT

How often must the safety officer complete an inspection of the entire ship

- A** Every three months

HDQQ

What is the meaning of this symbol ?

- A** Rescue boat

HDSW

By what date must ALL vessels fully comply with GMDSS requirements?

- A** 1st February 1999

HDTU

Which symptoms would indicate piston blow-by when operating a 4 stroke trunk piston type engine ?

- A** Smoke and increased pressure in the crankcase of the engine.

HDVM

Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). During preparations for welding or hot works, the following item shall always be checked:

- A** Type of oil or gas chemicals having been carried in the actual tank and the adjacent tanks.

HDXC

Which of the following alternatives are recommended when decanting water overboard from the sloptank?

- A** Leave a "cushion" of water in the sloptank, to minimize the risk of polluting the sea

HDXU

Where shall manually operated call points be found?

- A** So that no part of any corridor is more than 20m away from any manually operated call point

HDYY

What is typical for a P(proportional)-controller

- A** It will always be a deviation between the set-point and the process value

HEBH

In order for fuel oil to burn properly it must

- A** all alternatives



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- HEOT** Stainless steel tanks are sometimes required to be "passivated" especially after tank surface repairs have been carried out and aggressive cargoes are to be loaded. "Passivation" normally consists of:
- A** Applying 12 - 15% nitric acid on tank surfaces, either with a brush or spray; then washing off after 10 - 20 minutes using copious amounts of fresh water?
- 
- HEVD** Which of the four figures illustrated shows the correct position line for the following situation: Latitude 50° 00N, Longitude 30°00W, Time 1200 GMT. Course steered: 090° True, Speed: 12 knots, bearing of the sun: 200°, Intercept correction: 00°02 Towards (observed altitude - computed altitude).
- A** Figure 2 is correct.
- 
- HEWF** What does "general daily cleaning" mean?
- A** Removing trash, dusting and light cleaning in cabins, messrooms and WC.
- 
- HFKD** Which of the following voltage levels would be regarded as high voltage likely to be found on a ship?
- A** 6.6kV
- 
- HFLB** \*Where on board would you find out which fire sections are enclosed by "A" or "B" bulkheads and decks?
- A** On the fire control plans
- 
- HFLG** In the situation illustrated, what should be the distribution of the power requirements from the tugs, if the ship is to be moved sideways without changing the heading? Both tugs have similar bollard pull and are of conventional propulsion.
- A** Full power on the forward tug, reduce on the aft tug while checking the gyro
- 
- HFLG** In the situation illustrated, what should be the distribution of the power requirements from the tugs, if the ship is to be moved sideways without changing the heading? Both tugs have similar bollard pull and are of conventional propulsion.
- A** - Much greater power on the forward tug than on the after tug while monitoring the gyro heading
- 
- HFMT** Which part of the float-free arrangement for inflatable liferafts is made to provide a connection between the ship and the liferaft?
- A** the painter
- 
- HFNQ** Who is responsible for maintaining the vessels structural strength?
- A** The master.
- 
- HFPI** What is the minimum number of fire control plans that should be permanently stored in a prominently marked weathertight enclosure outside the deckhouse for the assistance of shoreside fire fighting personnel?
- A** At least one
- 
- HFQD** On area A4 the function "Transmission of ship to shore distress alerts" is mainly based on:
- A** the use of HF DSC and SARTSAT COSPAS Epirbs



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HFQI

\*Give the meaning of the following symbol

A Secure hatches

HFRA

\*Give the meaning of the following symbol

A Fasten seat belts

HFSQ

What is the purpose of the "Bowsing tackle" (block and tackle) supplied at each end of the lifeboat?

A It keeps the boat alongside the embarkation deck so that the tricing pennants can be released

HFXU

Which are the main components in acid cleaning products?

A Hydrochloric acid and citric acid.

HFXV

If on low-power, VHF channel 15 and 17 may be used for inter-ship radio traffic.

A This is not correct, inter-ship has to be intra-ship

HFYQ

Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

A assembling passengers at muster station

HFYQ

Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers?

A assembling passengers at muster station

HGCV

You are approaching a port when you see three flashing red lights in a vertical line at the entrance. What does this indicate?

A Serious emergency - all vessels to stop or divert according to instructions

HGDT

In what kind of atmosphere should tank washing be carried out onboard vessels with inert-gas system?

A Inerted to less than 8% oxygen(IMO).

HGEO

Is too high separation pre-heating temperature harmful to lubricating oil

A Not at temperatures used for pre-heating

HGGE

You are in charge of a night bunkering operation. The delivery rate from the supplier is high and you are filling six tanks simultaneously. You loose track of the progress of the operation and feel that you are loosing control of the situation. What action should you take?

A Stop bunkering, and establish facts, before bunkering is resumed





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- HGGE** You are in charge of a night bunkering operation. The delivery rate from the supplier is high and you are filling six tanks simultaneously. You lose track of the progress of the operation and feel that you are losing control of the situation. What action should you take?
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- A** Stop bunkering, and establish facts, before bunkering is resumed
- 
- HGGY** A tank containing hydrocarbon residues requires manual cleaning by use of shovels, scrapers etc. Should you:
- A** Open and ventilate the tank, test oxygen content, have someone standing by with rescue equipment, complete a permit to work and a tank entry permit and then commence work.
- 
- HGGY** A tank containing hydrocarbon residues requires manual cleaning by use of shovels, scrapers etc. Should you:
- A** Open the tank, provide adequate ventilation/lighting, test oxygen content, have someone standing by with rescue equipment, complete a tank entry permit then commence work.
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- HGGY** A tank containing hydrocarbon residues requires manual cleaning by use of shovels, scrapers etc. Which of the following is the correct procedure to follow?
- A** Open and ventilate the tank, test oxygen content, have someone standing by with rescue equipment, complete a permit to work and a tank entry permit and then commence work.
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- HGGY** A tank containing hydrocarbon residues requires manual cleaning by use of shovels, scrapers etc. Which of the following is the correct procedure to follow?
- A** Open the tank, provide adequate ventilation/lighting, test oxygen content, have someone standing by with rescue equipment, complete a tank entry permit then commence work.
- 
- HGHB** What is the reason too rising cooling water temperature at outlet of individual cylinders?
- A** Cooling water spaces insufficiently vented.
- 
- HGHY** In measurement systems there is often a need to specify performance characteristics. One such characteristic may be referred to as dead band. What is the definition of DEAD BAND?
- A** The change needed in the input signal to produce a change in the output signal.
- 
- HGKK** \*How many fire hoses are required for cargo ships of 1000 gross tonnage and upwards (not including hoses in any engine or boiler room) ?
- A** At least one hose for each 30 meter length of ship plus one spare
- 
- HGLB** Which of the equipment listed is not included in the firemans personal equipment? (SOLAS II-2/17.1.1)
- A** Leather safety boots and gloves
- 
- HGNW** Which branch of the MCA carries out statutory surveys?
- A** Marine Officers of the MCA



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HGOM

The details of a ship AALC are contained in:

**A** The ITU List of Ship Stations

HHBW

A centrifugal pump fails to deliver water after being idle for some time. There has not been carried out any maintenance on the unit since last time it was operated. What could be the reason for the malfunction?

**A** The pump is not primed.

HHCO

Ships vary considerably in design and underwater shape, but does the ship's trim ever have any influence on its steering abilities?

**A** Yes, the ship usually steers better if trimmed by the stern

HHDN

Which of the following meats is most perishable in cold storage?

**A** Pork

HHFA

What is the minimum number of independently driven fire pumps that must be provided on cargo ships of 1000 gross tonnage and upwards?

**A** 2

HHFA

What is the minimum number of independently driven fire pumps that must be provided on general cargo ships of 1000 gross tonnage and upwards?

**A** 2

HHIJ

On the figure 4 possible definitions of the term "CENTRE LINE" are given. Which one is the correct one?

**A** Centre line is given by A on the figure

HHLE

During a stay in port, a towing wire is to be put out forward and aft. What is important to take care of regarding this wire?

**A** That the wires are just above the water line at all times

HHNL

After disconnecting the telex connection via a LES, the time period is stated based on:

**A** the time in minutes, or parts of it, when the landline was used

HHNN

Who would be signed on in section ALC 1b of the Crew Agreement?

**A** The master, and any person who does not form part of the crew e.g. riding squad

HHUD

When an evaporator is operated in extremely cold water you may need to throttle the seawater supply to:

**A** Maintain the specified boiling temperature



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- HHWS** What is the minimum number of portable two way VHF walkie talkies for use in survival craft, that should be carried onboard vessels which comply with GMDSS regulations?
- A** 3 sets
- 
- HHYM** Under GMDSS which VHF channel is used for Digital Selective Calling (DSC)?
- A** Ch.70
- 
- HIBY** A distress call has been sent accidentally on your VHF DSC equipment. Which of the following is correct for cancelling the false distress alert?
- A** 1. Switch off the transmitter - 2. Switch equipment on - 3. Make broadcast on channel 16 "Mayday all stations..." and cancel the false distress alert.
- 
- HIFC** The HF-band is in the frequency range:
- A** 3 - 30 MHz
- 
- HIHW** Is it necessary in case of a distress alert via the Inmarsat A terminal to use the distress priority?
- A** Yes, by "distress priority" one always is assigned a channel
- 
- HINF** What fixed fire fighting medium do we normally use in the engine room, pump room and other spaces?
- A** The fixed fire fighting medium in engine room, pump room etc. is Carbon Dioxide CO<sub>2</sub>, Halon or foam
- 
- HIWP** Norwegian merchant- and fishing vessels have to participate in the AMVER system. What is the purpose of AMVER?
- A** It is an automatic system for plotting vessels for rescue purposes
- 
- HIXI** Where is the rudder axis located on an unbalanced rudder?
- A** Just in forepart of the rudder square (figure 3)
- 
- HIXJ** Which one of the listed requirements regarding radiotelephone auto alarm do not correspond to present regulations? Automatic receiving equipment shall:
- A** in presence of atmospheric or interfering signals automatically adjust itself
- 
- HJCN** Which of the listed requirements for cargo ships regarding personal life-saving appliances does not correspond to present regulations?
- A** Ships fitted with free-fall life-boats may carry thermal protective aids instead of immersion suits
- 
- HJLS** If it is found that a leakage from the gland of a centrifugal pump is excessive. The correct procedure is:
- A** Re-pack the stuffing box loosely with the correct size packing at the earliest opportunity.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HJMN

What is the purpose of the « SQUELCH » on a VHF transmitter/receiver?

A reduce the "noise" in the background

HJMQ

Which of the following services is not provided by INMARSAT A

A Safetynet

HJNL

In a circuit diagram of a simple hydraulic system, what does the following symbol indicate?

A A directional control valve.

HJNL

In a circuit diagram of a simple hydraulic system, what does the following symbol indicate?

A Pressure relief valve.

HJPY

What separation temperature do You recommend for heavy fuel?

A 98 Centigrades

HJSI

Why are the L.P.G. compressors of "Oil Free" type design?

A To prevent contamination of the cargo.

HJVM

What are the different branches of the MCA?

A RSS, HM Coastguard, Marine Officers, Enforcement Unit, Channel Surveillance Unit, MPCU

HKDC

How many pyrotechnic signals to be in each lifeboat?

A 4 Rocket parachute flares / 6 hand flares / 2 buoyant smoke signals

HKEH

It has been shown that the controlled release of oil is effective in reducing the effects of the sea, making it possible for a rescue craft to approach survivors in the water. How many square metres does the IAMSAR Manual suggest may be calmed by releasing 200 litres of lubricating oil slowly through a rubber

A - Approx 5,000 square metres.

HKLJ

What refrigerant temperature would you expect to find at the compressor discharge of an air conditioning system?

A + 85 ° C

HKMF

\*Which among the following list is required for lifeboat equipment according to present regulations ?

A be as small and of as little mass as possible



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HKNF

When you are calibrating an instrument what is the most common second step in the procedure?

**A** Check linearity

HKNF

When you are calibrating an instrument what is the most common second step in the procedure (consult the manual)

**A** Check linearity

HKSD

How many sections are included in the Crew Agreement?

**A** 6

HKTA

What is the procedure for recording a death in the OLB?

**A** Special section for Births and Deaths and also to be included in narrative section

HKUV

Give the meaning of this symbol:

**A** lifebuoy with light

HKXB

A deadweight tester is used to check and calibrate a pressure gauge. The tester consists of a hydraulic pump and a hydraulic chamber and balance weight system. After completing the calibration of the pressure gauge the hydraulic pressure should be relieved before removing the weights. Select, from the

**A** To protect the piston in the hydraulic system from possible impact damage as it may

HKXE

Shall every seafarer bring with him a valid health certificate issued as per Norwegian provisions?

**A** Yes

HKYX

Is it the duty of the Master to see to it that legislation and CWA/CBA are available to seafarers on board?

**A** The seafarers shall have available for their use the Seamen's and NIS-acts with regulations, together with all relevant CWA's/CBA's.

HLFN

What function is this operational amplifier circuit performing?

**A** Inverting amplifier

HLIX

Where in accommodation spaces shall smoke detectors be located? (SOLAS II-2/13.2.2)

**A** In stairways, corridors and escape routes

HLJS

PT-100 sensors are some times used with 3 or 4 wires. What is the reason for this?

**A** Higher measuring accuracy.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- HLNC** A vessel where the engine personnel is in charge of the whole technical installation is due for a voyage to a cold climate area. What special precautions should be implemented with regard to fire line/pumps and use of same?
- A** All the mentioned alternatives
- 
- HLOW** The MESAR is a book of:
- A** search and rescue at sea
- 
- HLQN** \*Which of following items shall be included in an abandon ship drill?
- A** instruction in the use of radio life-saving appliances
- 
- HLRC** What is a "certificated" person which is placed in charge of each survival craft ?
- A** a person who holds a "certificate of proficiency in survival craft"
- 
- HLVJ** Indicate the correct name for the tool on the sketch:
- A** Flat file
- 
- HLWF** What precautions must be taken before entering an enclosed space?
- A** Space thoroughly ventilated, Oxygen and gas readings taken, communication set up, permit to work completed, Crewmember standing by, with rescue gear.
- 
- HLXE** What does the 1 Engineer want to have done?
- A** He wants the heating coils inspected
- 
- HLXE** What does the 1 Engineer want to have done?
- A** The First Engineer would require an inspection of the heating coils
- 
- HMBI** What is the likely cause of a decrease in the pH-value and an increase of the sulphate content of a diesel engines cooling water system?
- A** Exhaust leakage
- 
- HMEV** What would you serve at a cocktail party?
- A** Assorted canapes.
- 
- HMGD** What is false regarding the function :” Transmission and reception of ship to ship distress alerts
- A** On area A3 this function is based on the use of INMARSAT A, B or C



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HMGN

The MMSI is:

- A** a ship identity number

HMLF

Hygiene, what does it mean in general?

- A** All preventive methods to avoid spreading of bacteria and fungus.

HMPK

Why is it important to issue "Note of Protest"?

- A** To protect both owners and charterers

HMSW

Why is an inertgas system required when COW is undertaken?

- A** Safety purpose?

HMTS

\*Besides certain other factors, a BOILOVER takes place:

- A** When the container also contains water

HMYN

During a routine seapassage the cooling water high temperature alarm system for one of the auxiliary engines is out of function and blocked. What will be the appropriate immediate action?

- A** All the actions listed in the other alternatives

HNAL

Is there a time limit for when all liferafts must have been launched after sounding of abandon ship signal?

- A** 30 minutes

HNCT

The figure shows a cross section through a ship floating in water, with the hull in red and the seabed below the ship shaded. On the figure there are four (4) possible definitions of the term "FREEBOARD" given. Which one is the correct one?

- A** Depth is given by B on the figure

HNCU

When opening a Plate Cooler for cleaning, how should the bolts be removed?

- A** Fully slacken and remove top ones first, then middle, then bottom.

HNLE

The fuel oil separator (ALCAP) bowl discharge is not working properly

- A** Opening water function missing.

HNVG

During operation of the main engine, the exhaust temperature increases on one of the cylinders. The turbocharger starts surging and smoke from the turbocharger inlet air filter occurs. What is the probable cause?

- A** Scavenge box fire



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- HNVG** During operation of the main engine, the exhaust temperature increases on one of the cylinders. The turbocharger starts surging and smoke is seen coming out from the turbocharger inlet air filter. What is the most probable cause?
- A** Scavenge box fire
- 
- HNVI** The portable walkie talkies required to be carried by GMDSS regulations should have which channels as a minimum?
- A** Channels 6, 13 & 16
- 
- HNWY** A balanced rudder has some of the rudder area forward of the rudder axis. About how much area should this be to call it a balanced rudder?
- A** It should be about 20%
- 
- HOCT** What is correct?
- A** COTP-zones may have additional rules and regulations
- 
- HOLA** You are on a 10.000 ton Chemical Tanker that in addition to fixed foam monitors, is equipped with portable foam applicators. One of the applicators is lost. When ordering a new one you would order one with:
- A** A throughput of at least 400 liters a minute and a "throw" of 15 metres?
- 
- HOLX** Which of the following should NOT be used on an electrical fire?
- A** Water extinguisher.
- 
- HOQE** Which of the pressures is the most satisfactory at the suction of an air conditioning freon compressor?
- A** 4.5 bar
- 
- HORY** At what temperature would a fully refrigerated cargo of propane normally be carried on a liquefied gas carrier?
- A** - 43° C
- 
- HOTH** An expansion process along a turbine venturi is often recognized as if no heat transfer out of the system is occurring What is the correct term for this?
- A** Adiabatic.
- 
- HOUE** Must you be certified to be a lifeboat-commander?
- A** Yes, you must attend to a course held by certified personnel, and then be certified by national authorities (NMD, USCG, etc)
- 
- HOWT** Which of the below statements characterizes the most significant differences between a water-tube boiler and a fire-tube boiler during operation?
- A** Water-tube boilers are more efficient and contains less water. They suffer from major damages when run dry during operation.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- HOYJ** Which one of the listed requirements regarding launching appliances for survival crafts and rescue boats do not correspond to present regulations?
- A** All launching appliances shall be capable of recovering survival crafts and rescue boats with their crew
- 
- HPDQ** What will be the minimum volume of halon to extinguish a fire in an enclosed room?
- A** 4.25% of the volume of the room
- 
- HPDU** On the figure 4 possible definitions of the term "AFT BREAST LINE" are shown. Which one is the correct one?
- A** Aft breast line is defined as B on the figure
- 
- HPGW** What type of heat exchanger is shown in the illustration?
- A** Plate
- 
- HPHR** Which electronic component is this graphical symbol illustrating:
- A** Zener diode
- 
- HPHU** A person wearing lifejacket or immersion suit, shall be able to turn from a face-down to a face-up position in not more than:
- A** 5 seconds
- 
- HPLE** When shall you use goggles?
- A** When you need to protect your eyes.
- 
- HPMA** A 6-Volt dc relay is to be used with a 12-Volt power supply. The relay requires a current of 0.1 Amp. What is the series resistance required.
- A** 40 ohm
- 
- HPMR** In a cascade type direct cooling plant, as fitted to some liquefied gas carriers for cargo reliquefaction duties, a refrigerant gas is used to give final cooling and condensation of the cargo vapours. What level of refrigerant would you expect to see in the liquid receiver sight glass when the plant is operating at normal
- A** 10 %
- 
- HPPB** On a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?
- A** The smallest diameter piston is the stage two piston.
- 
- HPPC** A CBT-tanker arrives at the loading port in ballast condition. What is today's normal procedure for this type of vessel when loading?
- A** Deballasting and loading simultaneously.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HPTH

What is the function of the Registry of Shipping and Seamen?

- A** To maintain a record of all British ships and British certificates

HPVB

\*You are carrying out a search in a smoke filled compartment wearing a breathing apparatus. At what stage should you start to make your way out of the compartment?

- A** Regularly check your pressure gauge and note how much air you used to reach your work area. Start to return when you have this amount left plus a reasonable reserve

HPVX

What is the meaning of this symbol ?

- A** Immersion suit

HQAX

\*At what rate shall a fixed high-expansion foam fire-extinguishing system fill the greatest space of an engine room with foam?

- A** 1 m depth per minute

HQEF

The circuit symbol is a widely used system for rectification of AC into DC. Which of the diagrams is the correct for the out- put voltage when the input voltage is sine-shaped as shown?

- A** Figure 1

HQGU

Buoyant smoke signals shall be so designed as to burn or emit smoke:

- A** Continuously after having been immersed for a period of 10 seconds under 100 mm of

HQGU

Buoyant smoke signals shall be so designed as to burn or emit smoke:

- A** continuously after having been immersed for a period of 10 seconds under 100mm of water

HQHT

Before engaging the Turning Gear, precautions should be taken to:

- A** Shut off the starting air supply and open the indicator cocks

HQIS

What is the capacity of the required portable fluid extinguishers

- A** Not more than 13,5 litres and not less than 9 litres

HQJG

Pantry and galley floors are often covered with ceramic tiles. What should be done to avoid accidents in rough weather?

- A** Avoid spilling water and fat on the floors.

HQLU

In the diagram, which letter is indicating the "bits" which would probably be used by the "FORWARD SPRING" when mooring the ship?

- A** Forward spring is given by D on the figure



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- HQQS** Before any portable gas indicators are brought to the measuring spot, what is very important to do with these analysers first?
- A** To do a full calibration.
- 
- HQQW** The category of a DSC-call determines:
- A** the degree of priority
- 
- HQQY** You want to send a DSC distress alert via the HF-band. You prefer the:
- A** 8 MHz band
- 
- HQXO** On the diagram, which letter is indicating the "BOW"?
- A** Bow/stem is given by B on the figure
- 
- HQXQ** The diagram shows the direction that a rope runs during a mooring operation and a possible place where it may break. Where would be considered the safest position to stand?
- A** Outside the coloured zone.
- 
- HRCT** Consider the situation sketched below. How will you distribute the power of the tugs when you want to move the ship sideways without any yaw?
- A** Equal power on both tugs while checking the gyro
- 
- HREE** Choose the group of electrical power supplies that best fits the identification of "Mains"
- A** No. 1 diesel and No. 2 diesel
- 
- HREY** What should the Fitter be asked to do?
- A** He is to check the heater for the hydraulic oil
- 
- HRJV** Define the class of emission H3E :
- A** Radiotelephony - Single sideband full carrier
- 
- HSTT** Hydrocarbon gas encountered in oil tankers cannot burn in an atmosphere containing less than approximately what percentage of oxygen (by volume)?
- A** 11 %
- 
- HSUT** What will You do if the heat transfer capacity is dropping, and we know that flow and heat energy corresponds to the specifications?
- A** Use the "cleaning in place" arrangement or open the heat exchanger for visual inspection and manual cleaning.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HSXB

Which of the named ships are not subject to SOLAS regulations?

- A** Cargo ships of less than 500 tons gross

HSYU

Which of the following statements is NOT correct about high expansion foam?

- A** You cannot survive in H.E. foam as the oxygen content is reduced.

HTAQ

By a vessel in distress a SART is used. This SART is seen on the screen of a:

- A** 3 cm radar

HTAU

How many pyrotechnic signals to be in each lifeboat?

- A** 4 Rocket parachute flares / 6 hand flares / 2 buoyant smoke signals

HTPS

What does this crane signal indicates?

- A** Raise the load

HTPX

A casualty suddenly loses consciousness and falls to the ground letting out a strange cry. The patient is red-blue in the face and froth may appear around the mouth. You are witnessing a major epileptic attack. What should you do?

- A** Loose tight clothing, ask all unnecessary bystanders to leave and carefully place something soft under the head. If casualty is unconscious, place the person in Recovery position.

HTQN

The cooling water temperature out of the engine becomes too high. Everything else is normal. What is the reason for this?

- A** Air in the cooling water system.

HTVI

A Category "B" Chemical Cargo which has a melting point of more than 15° C. can be carried:

- A** In tanks not adjacent to the ship's shell plating having heating coils?

HTYW

On the figure 4 possible definitions of the term "FORWARD SPRING" are given. Which one is the correct one?

- A** Forward spring is given by D on the figure

HUHC

With an increase in temperature the volume of flammable and combustible liquids :

- A** Expands

HUIB

The IMO Code requires protection against spillage of the most dangerous products (ethyl ether, antiknock lead compounds such as TML and TEL etc) by prescribing that:

- A** They shall be carried in cargo tanks independent of the ships hull structure?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HUPO

Which harbour can provide certain norwegian supplies?

**A** Singapore

HUSV

What is the main fire fighting medium used for the cargo area of an oil tanker?

**A** Foam.

HUTX

Which of the following has not to be noted in the radio log-book

**A** Duration of public correspondence communications

HVER

\*Which one of the listed requirements regarding abandon ship drills corresponds to present SOLAS regulation?

**A** Each lifeboat shall be launched with its assigned crew, and manoeuvred in the water at least once every three months during an abandon ship drill

HVGC

You are duty officer on the bridge. An eye-witness has reported a man-overboard. Which of the following actions is the correct manoeuvre in this situation?

**A** - Williamson Turn

HVGC

You are duty officer on the bridge. An eye-witness has reported a man-overboard. Which of the following actions is the correct manoeuvre in this situation?

**A** Williamson Turn

HVGC

You are duty officer on the bridge. An eye-witness is reporting man-overboard. Which of the following actions are to be considered as the correct manoeuvre in this situation?

**A** - Williamson Turn

HVGC

You are duty officer on the bridge. An eye-witness is reporting man-overboard. Which of the following actions are to be considered as the correct manoeuvre in this situation?

**A** Williamson Turn

HVGD

What is the letter signal flag used by a vessel in response to an aircraft request for assistance in rescue operation?

**A** Answering Pendant

HVGD

What is the letter signal flag used by a vessel in response to an aircrafts request for assistance in a rescue operation?

**A** Answering Pendant

HVGH

What is the Chief Mate asking for?

**A** He is asking about the position of the chain



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HVJO

What is the main fire fighting medium for tank deck on gas and chemical carriers?

- A** Chemical powder is the main medium for tank deck fire fighting on gas and chemical carriers

HVKH

Is there any requirement to the atmosphere in the hold space when carrying flammable cargo?

- A** Yes, neutral atmosphere in hold space on all gas carriers exempt from those who have independent type C tanks

HVQG

What is the main rules as to period of notice of termination as per the Seamens Act?

- A** One month

HWBC

What do you think could be the cause of an air conditioning evaporation "Icing Up"?

- A** Too low suction pressure.

HWCB

How many, minimum lines of positions are needed to decide a position using the decca system?

- A** 2 lines of position.

HWDR

How many buoyant smoke signals are carried in each liferaft with SOLAS A pack?

- A** 2

HHWD

What is the function of the "scrubber" in the inert gas system on an oil tanker?

- A** To cool, remove sulphur dioxide and particulate soot from the flue gas?

HWKI

\*Which of the following information shall be specified by the muster list ?

- A** substitutes for key persons who may become disabled

HWQG

The passage of electrical current through the body may result in severe and sometimes fatal injuries. You are witness to man getting electric current through his body and is stuck to the dangerous area. It is impossible to switch off the current by any main switch. How to break the current safely?

- A** Stand on dry insulating material and pull the person away with insulating material.

HXBC

\*Give the meaning of the following symbol

- A** Lower lifeboat to water

HXCQ

An area A1 is:

- A** an area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HXGD

Within territorial waters the use of transmitters is prohibited. In general this does not apply for:

**A** VHF-equipment

HXGI

Give the meaning of the following symbol:

**A** rescue boat

HXHS

For how long shall a ship's log-book be kept on board?

**A** For at least three years

HXIM

All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.5 - 10.1.7)

**A** When temporary bulkheads (bins) are used on deck, openings shall be arranged as to prevent water accumulating.

HXKF

You are going to start firing a boiler. Which of the below mentioned alternatives do you consider as most important?

**A** A thorough ventilation of the combustion chamber before the ignition takes place

HXMV

Not all crude oils can be used for crude oil washing. What is the common recommendation to use a crude oil for washing.

**A** The temperature must at all times be 10 degrees Centigrade above the oil's pour point temperature.

HXNP

Which one of the listed requirements regarding inflatable liferafts do not correspond to present regulations? The inflatable liferaft shall:

**A** have at least two entrances

HXUC

The circuit symbol is a widely used system for converting AC voltage to DC voltage. In this case the input voltage is a sine-wave. Which of the shown diagrams is correct for the output voltage V(out.)

**A** Figure 1

HXVA

What is the meaning of "stand by"?

**A** That the watch keeping personnel shall be ready for starting or manoeuvring the main engine.

HXWA

\*How much food per person is supplied on a liferaft marked SOLAS A PACK?

**A** Not less than 10000 kJ

HYDL

The wearer of a lifejacket can jump into the water without injury and without damaging the jacket from a height of at least:

**A** 4,50 m



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

HYEK

What is the most likely cause of the boiler exhaust gas being white in colour leaving the funnel?

**A** too much combustion air

HYRP

In case of a fire inside the Acetylene-line in the ac/ox gas welding equipment, what action is deemed necessary?

**A** Close the valves on both the Acetylene and the Oxygen bottles.

HYSN

What type of buoy is this?

**A** West cardinal buoy

HYTJ

What rules and regulations are regulating the watch keeping routines in the engine room?

**A** Both STCW and Class rules

HYVW

An important quantity which is useful in circuit analysis is known as conductance G (Siemens). Which of the formulas A to D expresses the conductance for this circuit?

**A**  $G = 1 / R$

HYVW

An important quantity which is useful in circuit analysis is known as conductance G (Siemens). Which of the formulas A to D expresses the conductance for this circuit?

**A** NAND

IAFK

Give the meaning of the following symbol:

**A** muster station

IAKJ

Your indicator diagram is as shown. What kind of steps do you think are necessary to rectify the failure?

**A** Check if fuel injection is too early or fuel pump lead too large

IAKL

A vessel berths at two different jetties under the influence of a 1 knot beam current. At the first jetty the ship has an underkeel clearance of 5 times the draught and at the second the underkeel clearance is only 0.5 times the draught. If the current exerted a force of 50 tonnes on the ship at the first jetty, what would

**A** 150 tons

IAKL

A vessel berths at two different jetties under the influence of a 1 knot beam current. At the first jetty the ship has an underkeel clearance of 5 times the draught and at the second the underkeel clearance is only 0.5 times the draught. If the current exerted a force of 50 tonnes on the ship at the first jetty, what would

**A** - J.30 tonnes

IAQA

Which item among those below is included in the normal equipment of every liferaft ?

**A** one first-aid outfit in a waterproof case





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IATQ

What is a "fire wire"?

- A** A wire for pulling burning ships off the pier

IAUG

To announce an important navigational –or meteorological warning via the VHF-installation, one should use the:

- A** safety call

IBFF

When synthetic ropetails are used at the ends of wire ropes, due expected faster deterioration of the synthetic ropetails, it is recommended that when ordering ropetails, their initial breaking strength specified should be:

- A** 25 % more than the wire's

IBFF

When synthetic ropetails are used at the ends of wire ropes, faster deterioration would be expected. Therefore, it is recommended that when ordering ropetails, their initial breaking strength specified should be:

- A** 25 % more than the wire's

IBGM

A piston rod retaining nut needs to be tightened during maintenance on the main engine. Which of the given methods should be used to ensure it does not come loose in service?

- A** Tighten it to the manufacturer's recommendations using a torque wrench.

IBHY

Which item among those below is included in the normal equipment of every lifeboat ?

- A** a given number of buoyant oars provided with thole pins or crutches attached by lanyards

IBOK

How many shares are there in a registered British ship

- A** 64

IBOM

Who is responsible for ensuring that ratings forming part of a watch and personnel assisting or performing cargo operations on tankers are properly qualified?

- A** It is incumbent on the shipowners and the master to ensure that the requirements are complied with and documented.

IBPY

What is the meaning of this symbol ?

- A** Evacuation slide

ICAA

What is the hydraulic hand pump usually used for?

- A** The hydraulic pump is usually used for tightening the G-nuts

ICHS

The purpose of the "flame scanner" on the boiler is

- A** Shut off the oil flow if the flames goes out



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ICHU

Define the class of emission J3E :

- A** Radiotelephony - Single sideband suppressed carrier

ICIK

Which of the following detailed explanations should be mentioned in the Training Manual ?

- A** The use of engines and accessories

ICWU

Give the meaning of the following symbol

- A** Remote controlled fire pumps

ICYJ

In the figure, which letter indicates which item is the "WINDLASS"?

- A** Windlass is given by B on the figure

IDCO

The engine turns when starting air is supplied but does not start. What could be the probable cause to this?

- A** The fuel oil filters or pipes are clogged.

IDDM

The thermal expansion valve responds to the

- A** Amount of superheat in the vapor leaving the coil

IDEA

An evacuation-slide must be capable:

- A** of being deployed by one person

IDIL

On the figure 4 possible definitions of the term "BOLLARD" are given. Which one is the correct one?

- A** Bollard is given by D on the figure

IDIN

What will you bring in a lifeboat if the ship is abandoned?

- A** Warm clothes, blankets and lifevests.

IDMA

What would be the correct form of response to the question: What kind of assistance do you require?

- A** The correct form of response would be: My vessel has a fire in the accommodation and we require fire-fighting assistance

IDQV

Emergency instructions in appropriate languages shall be posted in passenger cabins. Which one of the given instruction has to be included according to present SOLAS regulations?

- A** The method of donning life-jackets.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IDRK	What was blocking the grease pipe?
A	Stuck grease was blocking the grease pipe
IDUT	On the figure 4 possible definitions of the term "STARBOARD QUARTER" are given. Which one is the correct one?
A	Starboard quarter is given by C on the figure
IDVS	*How many sources of power must a fire detection and fire alarm system be provided with?
A	At least two
IDYB	What is dynamic amplifying
A	Amplitude of output signal divided by amplitude of input signal
IELO	This device can detect a package of drugs inside a large delivery of ship's stores. What is it?
A	Pallet scanner
IEOE	What class of fire involves liquids?
A	Class B fire
IEOX	What transmission-mode must be used with NBDP?
A	J2B/F1B
IERT	The ship is approaching shallow water where the Under Keel Clearance will reduce to about 0.25 of the ships draught. Which of the following answers most accurately summarizes the aspects to be considered when deciding a suitable speed?
A	- All of the suggested answers
IERT	The ship is approaching shallow water where the Under Keel Clearance will reduce to about 0.25 of the ships draught. Which of the following answers most accurately summarizes the aspects to be considered when deciding a suitable speed?
A	Reduce to slow or less in due time before entering
IEXH	On board they want to send a telex message to the Apollogracht via Inmarsat. In the guides the following ID's are found for the Apollogracht: 24432000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:
A	424432010 or 424432020
IFAS	The ABC-rules are an important part of the First Aiders know how. What does the First Aid ABC-rules stands for?
A	Airway Breathing Circulation



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IFFT Which class of emission is used for VHF radio telephony transmissions ?
- A G3E
- 
- IFJV An inflatable lifejacket has:
- A 2 separate compartments
- 
- IFJW \*Which deck is the "bulkhead deck"?
- A The uppermost deck to which transverse bulkheads are carried
- 
- IFLU You are the Master onboard at a VLCC of 280.000 tdw and have received a telex from the Cargo Terminal asking if your SPM moorings are according to the OCIMF standard. What fittings must you have to comply?
- A - Two tongue-type/hinged bowstoppers with separate closed fairlea Capacity 200 tons
- 
- IFLU You are the Master onboard at a VLCC of 280.000 tdw and have received a telex from the Cargo Terminal asking if your SPM moorings are according to the OCIMF standard. What fittings must you have to comply?
- A Two tongue-type/hinged bowstoppers with separate closed fairleads - Capacity 200 tons
- 
- IFMN What are the contents of the book "Excerpts from the Norwegian Ship Control Legislation" ?
- A A compilation of Norwegian laws and regulations concerning the safety of ships and crew.
- 
- IFMO Which international convention deals with pollution prevention?
- A MARPOL 73/78.
- 
- IFRI The Inmarsat-C installation on board is switched off without logging-out first:
- A out of order
- 
- IFXF The best way to identify an IED is to?
- A Recognize its components.
- 
- IGCA When carrying out a Crude Oil Washing operation, why is it a necessary to partly discharge the tank before commencing washing?
- A To prevent electrostatic generation
- 
- IGDX You are duty officer and it is restricted visibility. On the radar you are observing a vessel foreward on your bow (7 n.m. off) and a vessel with approx the same speed and course on your starboard side, but with a CPA of 0,2 mm. You alter your course to starboard and cannot avoid the collision. What should you have
- A You should have reduced your speed to the minimum on which the vessel can be kept on course



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- IGES** Asthma is a distressing condition in which the muscles of the air passage go into spasm. How can the asthma attacks be triggered off ?
- A** Nervous tension, allergy, or none obvious cause.
- 
- IGFO** Which type of pump is best suited to use with an oily water separator?
- A** Rotary positive displacement (mono type).
- 
- IGGI** If the high PPM alarm is actuated on an automatic O.W.S. What should happen?
- A** Overboard discharge is stopped.
- 
- IGGI** If the high PPM alarm is actuated on an automatic O.W.S. What should happen?
- A** Overboard discharge valve should close automatically.
- 
- IGRD** How many groups of cargo tanks do we have on gas carriers?
- A** IMO divides cargo tanks on gas carriers into 4 groups: Integral tanks, Membrane tanks, Semi-membrane tanks and independent tanks
- 
- IGWC** The (auto)ignition temperature is that temperature at which .
- A** No spark or flame is required to ignite gas or vapor
- 
- IHAH** If you discover a fire which is not a very small one, what is the first action you must do?
- A** activate the fire alarm
- 
- IHAO** How many rescue boats should be provided on passenger ships of 500 gross tons and above?
- A** Two
- 
- IHBJ** If you have to carry out hot work close to a smoke detector in the engine room, what precautions should be taken?
- A** Notify Master, Deck officer and Engineer in charge. The loop for this special sensor to be switched off and take normal precautions for hot work.
- 
- IHCB** \*What is the meaning of this symbol ?
- A** Start air supply
- 
- IHCD** Fuel oil from a leaking fuel pipe has been collected in a drip tray under the boiler furnace. The oil is suddenly ignited by a backflash from the boiler burner. The boiler room is manned and the person present has the choice of various extinguishers. The fire is purely a surface fire. What would be the preferable
- A** Powder



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IHCT                      You enter a High Voltage switch room and find a person apparently unconscious. Which of the following should be done?
- A**    Raise alarm, identify means of isolation and apply before approaching victim.
- 
- IHCU                      For which purpose is a "twist lock" intended?
- A**    To secure/lash containers?
- 
- IHCX                      VHF CH70,DISTRESS,22702000,FIRE,N 50 20 E 006 12,11:23,G3E SIMP TEL EOS, What is false regarding the above call ?
- A**    This call was sent by a coast station
- 
- IHHG                      What is the minimum number of "Firemen's outfit" on gas tanker, above 5,000 m3, carrying flammable products?
- A**    5 sets of Firemen's outfits
- 
- IHKR                      Which of these are indicators that an individual may be a drug smuggler?
- A**    The individual wears bulky or out of season clothing
- 
- IHSR                      How much spare air should be on board for each breathing apparatus in excess to to Solas requirements ?
- A**    Fully charged bottles with a total free air capacity of at least 6000 liters for each breathing apparatus.
- 
- IHTT                      This block diagram illustrates an elementary control system. What do we call such system in general?
- A**    Closed loop feed back system
- 
- IHTT                      This block diagram illustrates an elementary control system. What is the common name for this type of system?
- A**    Closed loop feed back system
- 
- IHUR                      Which component does this graphical symbol illustrate?
- A**    Pressure indicator, installed on panel/console
- 
- IHXA                      What indicates "AHEAD", in the figure?
- A**    Ahead is given by A on the figure
- 
- IHXT                      What is the main purpose of the superheater vent valve on a high pressure steam boiler?
- A**    Ensure a flow of steam through the superheater when raising steam pressure after shut down



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IIBD

What is the minimum age for a seafarer on a NIS ship (foreign trade)?

- A** A person may serve on board as from the 17th. calendar year

IIES

How will you act if you are helmsman and the OOW (officer on watch) gives you the order: "Nothing to port"

- A** Don't let the ship turn to port

IIGG

When is it necessary to run two pumps or more in serial?

- A** If the back pressure when discharging is so high that one pump is not able to deliver any cargo.

IIHB

What IMO conventions take care of the human safety at sea?

- A** It is the SOLAS conventions that take care of the human safety at sea

IIHE

To connect the loading/discharging hoses/arms it is usually necessary to connect a reducer on board to fit the shore connection. What is the common name to where the reducer is connected on board.

- A** Presentation flange.

IIOS

What rules and regulations are regulating the watch keeping routines in the engine room?

- A** Both STCW and Class rules

IIPJ

Referring to the SOLAS convention, how often should a crew member on a cargo ship participate in one abandon ship drill and one fire drill?

- A** Monthly

IIQH

You are carrying out a search in a smoke filled compartment wearing BA. At what stage should you start to make your way out of the compartment?

- A** Regularly check your pressure gauge and note how much air you used to reach your work area. Start to return when you have this amount left plus a reasonable reserve.

IITK

On the figure 4 possible definitions of the term "STERN LINE" are given. Which one is the correct one?

- A** Stern line is given by A on the figure

IIYU

A distress call has been sent accidentally on your MF DSC equipment. Which of the following is correct for cancelling the false distress alert?

- A** 1. Switch off the transmitter - 2. Switch equipment on - 3. Make broadcast on 2182 kHz "Mayday all stations..." and cancel the false distress alert.

IJEM

For a large increase in the specific gravity of the oil, the gravity disc hole diameter should be:

- A** Reduced.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IJEO** The boiler have been shut down completely for inspection and repair. You have finished work and are going to start firing the boiler. What is the correct procedure for heating a boiler from cold?
- A** Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals.
- 
- IJIP** What is the main fire fighting medium for tank deck on gas and chemical carriers?
- A** Chemical powder is the main medium for tank deck fire fighting on gas and chemical carriers
- 
- IJNO** What mode must be used on the MF/HF transmission when making a radiotelephone call:
- A** J3E
- 
- IJOI** Where will the ships officers find necessary information regarding the ships fire protection arrangement, fire-detection equipment and fire extinguishing appliances? (SOLAS II-2/20.1)
- A** In permanently exhibited fire control plans
- 
- IJRT** Which item among those below is included in the normal equipment of every liferaft ?
- A** anti-seasickness medicine and one seasickness bag for each person
- 
- IJRV** On the figure 4 possible definitions of the term "AIR DRAUGHT" are given. Which one is the correct one?
- A** Height is given by D on the figure
- 
- IJRV** On the figure 4 possible definitions of the term "HEIGHT" are given. Which one is the correct one?
- A** Height is given by D on the figure
- 
- IJST** Which item among those below is included in the normal equipment of every liferaft ?
- A** one knife of the non-folding type having a buoyant handle and a lanyard
- 
- IJVB** A VHF transmission range is mainly restricted by:
- A** the curvature of the surface of the earth
- 
- IJVV** What manoeuvre should be carried out in case of a fire onboard a ship?
- A** Reduce speed and, if possible, keep the fire zone to the leeward of the ship
- 
- IKAB** A vessel where the engine personnel are in charge of the whole technical installation is due for a voyage to a cold climate area. What special precautions should be implemented with regard to fire line/pumps and use of same?
- A** All the mentioned alternatives





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IKCT** The free volume of carbon dioxide (CO<sub>2</sub>) of a fixed gas fire-extinguishing system shall be calculated at
- A** 0,56 m<sup>3</sup>/kg
- 
- IKGN** With reference to the installation of pressure gauges for steam systems. Complete the following statement from the options given. To protect a bourdon tube type pressure gauge which is to be fitted to a steam line it should ....
- A** ..be fitted with a siphon loop between it and the steam pipe.
- 
- IKIN** Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?
- A** Tanks adjacent to the tank where work is to be carried out shall be cleaned and free of gas.
- 
- IKKD** What causes the vapour pressure of a crude oil cargo to increase?
- A** To avoid build-up of static electricity, which may cause explosion
- 
- IKLV** In the situation illustrated, what should be the power distribution of the tugs to maintain the ship sideways motion with only minor changes in the ships heading?
- A** - Considerably more power on the aft tug than the forward tug, while monitoring the ship's gyro heading\_\_
- 
- IKLV** In the situation illustrated, what should be the power distribution of the tugs to maintain the ship sideways motion with only minor changes in the ships heading?
- A** Full power on the aft tug, reduce on the forward while checking the gyro
- 
- IKLX** The blowers air delivery is not sufficient. What is the cause?
- A** Clogged air inlet filter.
- 
- IKNO** A person wearing a thermal protective aid shall be able:
- A** to wear a lifejacket inside
- 
- IKSJ** All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.3 - 10.1.4)
- A** Hatch openings in weather deck to be closed and battened down before loading of deck cargo.
- 
- IKTI** Is the crew entitled to compensation if the master has to reduce the diet during a voyage?
- A** Yes
- 
- ILDJ** How often shall the oxygen analyser be calibrated?
- A** Prior to every plant start-up, following an 8 hour stop



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ILDJ	How often shall the oxygen analyser be calibrated?
A	Prior to every plant start-up following a shut down of 8 hours or more.
ILED	Water Jel is a unique product regarding protection and first aid of burns. Water Jel is delivered in different sizes. Biggest is a carpet with the size 182cm x 152 cm. What is the highest temperature the Water Jel carpet is resistant against?
A	1530 C
ILEH	Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. During ongoing inspection on work in cargo tanks, the gas concentration shall be checked:
A	Every second hour.
ILFC	If fuel or diesel oil is leaking from our HP fuel oil pumps, and penetrate into the lube oil system of the engine, the result may be:
A	It will destroy the properties of the lube oil and lead to serious damage in our engine.
ILMM	What signal, if any, is specified in SOLAS as the "Abandon ship" signal ?
A	the "Abandon ship" signal is not specified, only the general emergency alarm signal is
ILMM	What signal, if any, is specified in SOLAS as the "Abandon ship" signal ?
A	the "Abandon ship" signal is not specified, only the general emergency alarm signal is stated
ILOD	All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding carriage of deck cargo corresponds to present regulations? (NSCL 4/10.1.8 - 10.1.10)
A	The light from lanterns and signals must not be obstructed.
ILOI	Which of the following could cause a "flareback"
A	trying to ignite burner from hot brickwork
ILRP	A maritime inquiry abroad shall be heard by:
A	The Norwegian Consular Court at the nearest competent Norwegian Foreign Service Station.
ILTE	In what publication do we find information regarding the kind of personal safety equipment we must have onboard on gas carriers?
A	In SOLAS chapter II-2, rule 17 and in the IGC code
ILTH	Hoses subject to tank pressure or the discharge pressure of pumps should be designed for a bursting of not less than :
A	5 times the maximum pressure the hose will be subjected during cargo transfer.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**IMBR** Who has police authority in matters which are connected with the seaworthiness of ships?

**A** A Norwegian Maritime Investigator

**IMGM** Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A4:

**A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX and/or 1 EGC receiver and/or 1 HF NBDP watch receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver - 1 HF RT + DSC+ DSC watch receiver

**IMJB** The PH concept does not correspond with cleaning efficiency, but depends entirely on what?

**A** A suitable composition of water and detergent.

**IMJD** For intra-ship radio traffic with a porto-phone the following channels have been appointed:

**A** 15 and 17

**IMNG** According to the regulations in force, one of the following stripping devices is a demand on an oil tanker. Which one?

**A** Stripping pump.

**INEX** Give the meaning of this symbol:

**A** lifebuoy with line

**INKV** You want to make a telephone call to a shore subscriber. Which sequence will you key into your INMARSAT A terminal?

**A** CES two digits code # 00 Country code Area code Subscriber code #

**INRG** How would you ventilate your cargo holds when sailing from cold climate to hot climate?

**A** No ventilation should be done?

**INSB** You are serving on a 5 year old chemical tanker. You are called upon to order a portable blower for ventilation of DB tanks, cofferdams & pipe tunnels prior entry & during inspection. You would order a blower of capacity:

**A** Able to effect a complete change of air of the space being ventilated 16 times an hour?

**INUQ** A deepwell pump is a type of :

**A** Centrifugal pump

**IOAU** What kind of provisions are in Part 0 of the book "Excerpts from the Norwegian Maritime Code of 24 June, 1994, No. 39"?

**A** Acts.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IOAU                      What kind of provisions are in Part 0 of the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"?
- A    Acts.
- 
- IOAU                      What kind of provisions are in Part 0 of the book "Excerpts from the Norwegian Ship Control Legislation"?
- A    Acts.
- 
- IOBI                      If one wishes to make a collect call from a vessel to a shore subscriber, one must:
- A    request for a collect call
- 
- IOQF                      Do you think an increase in flow rate through the separator would improve the separation of oil and water?
- A    No
- 
- IOQH                      Would the purification efficiency be improved by an increase in throughput?
- A    Yes.
- 
- IPEP                      Which of the following detectors will you use for detecting if a watertight steel door is closed or open?
- A    Proximity switch
- 
- IPEP                      Which of the following detectors will you use for sensing if a watertight steel door is closed or open?
- A    Proximity switch
- 
- IPFK                      What pressure shall a cargo hose be marked with?
- A    Maximum allowable working pressure
- 
- IPGK                      What class of fire is a smoldering fire of wood, textiles, paper and other carbonaceous materials?
- A    Class A
- 
- IPJW                      In an extreme case, in addition to having your winch brakes as tight as can be, you can increase the brake holding capacity of the winch drum by putting it in gear and setting the power to the heave position. However this may cause:
- A    All the listed alternatives
- 
- IPLJ                      An OBO or O/O carrier, due to the movement of liquid in a cargo hold during rough weather, the possibility of liquid entering the inert gas piping is great. To avoid this U-bends are sometimes fitted on the line emerging from the hatch coaming. These bends generally have a drain cock at the bottom. These
- A    Opened after rough weather or before loading/discharging or transferring cargo to check for liquid accumulation and contents drained into a drip pan.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IPPP

Which item among those below is included in the normal equipment of every liferaft ?

- A** watertight receptacles containing 1.5l of fresh water for each person (may be partially replaced by a desalting apparatus)

IPVS

How would you report a person lost overboard?

- A** "Vessel "name" has lost a person overboard in "position....."

IQBD

In a PID controller it is possible to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to a step change in input, if the setting of the reset time is too small.

- A** Figure 3.

IQBD

In a PID controller it is possible to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to change in input, if the setting of the reset time is too small.

- A** Figure 3.

IQEQ

You wish to use the slop tank for the source of driving fluid for COW. Which of the following should be done before starting:

- A** Discharge the slop tank completely and refill it from another tank from which the bottom 1m ullage has already been discharged

IQGE

What measures should be taken in order to avoid explosive gases to form on top of coal cargoes?

- A** Ventilate the holds as well as possible

IQGK

In many countries some cleaning products are labelled with warning signs. Why?

- A** The user should be warned that the product contains fluids that may irritate and itch skin.

IQHC

What does "periodic cleaning" mean?

- A** Washing and polishing floors, chemical cleaning of furniture and carpets in cabin and other common rooms.

IQHE

You are sailing in shallow water, with 15% Under Keel Clearance. Turning the ship around, what space do you need compared to deep water?

- A** Need more space than normal

IQLG

During a telex-connection with a subscriber it is:

- A** recommended at the beginning and at the end of the message-transport to exchanges 'answer back' s'

IQMB

Which one of the options given is the most likely cause of a diesel engine failing to turn on air when the start signal is initiated?

- A** Released blocking function in remote starting system.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IQOS	In radio-traffic with a coast-station, a "personal call" means that one wishes:
A	to have a telephone conversation with a person whose name is known
IQPN	Electric arc welding is to be carried out in the machinery spaces other than the workshop. Which of the alternatives below would be the correct procedure for the connection of the "return" cable to the welding set?
A	Any of the listed alternatives.
IQPN	Electric arc welding is to be carried out in the machinery spaces other than the workshop. Which of the alternatives below would be the preferred method for the connection of the "return" cable to the welding set?
A	Any of the listed alternatives.
IQTT	How do the human body absorb toxicants?
A	The human body absorb toxicants through respiration, skin and the aliment channel
IQXU	How often must a fire drill be carried out on a British ship?
A	Monthly
IRAJ	In fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar/4-20mA for level measurement. The transmitter is installed 30 centimetres from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is empty?
A	4 mA.
IRHV	In case a message witch is destined for a telex-subscriber ashore is sent via an Inmarsat-C installation on board:
A	there is never a direct connection with the shore-subscriber
IRIT	On board they want to establish telex-communication via the Inmarsat-set with the ship Appologracht. In the guides the following ID's are found for the Appologracht: 244320000, 424432010, 424432020, 1300210, 36715. What ID should chosen:
A	1300210
IRVA	*A lifebuoy must have an outer diameter of:
A	not more than 800 mm
IRWV	What is the main criterion generally taken into account to classify portable extinguishers:
A	The extinguishing agent
ISIJ	If a cargo has a literweight Of 1.5 kg/l at 15° and a correction factor of 0,001, what is the literweight at 20° C ?
A	1.495 kg/l



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ISPY

What principle of measurement are viscosity controllers usually based upon?

**A** Measurement of differential pressure

ISRV

What is the symbol for a THYRISTOR?

**A** Figure 2.

ISSQ

For which type of vessel is sinkage most pronounced?

**A** High block coefficient vessel

ISUD

\*Which of these series of sizes corresponds to the international standard for nozzles

**A** 12 mm, 16 mm and 19 mm

ISVS

In MARPOL 73/78, the wording "Special Areas" is mentioned in connection with conventional oil tankers. What do you understand by this term?

**A** Special area is certain areas like Red Sea, Black Sea, Baltic Sea, Mediterranean, Gulf area, Antarctic area.

ISVS

In MARPOL 73/78, the wording "Special Areas" is mentioned in connection with discharges from oil tankers. What do you understand by this term?

**A** Special area is certain areas like Red Sea, Black Sea, Baltic Sea, Mediterranean, Gulf area, Antarctic area.

ISVY

In accommodation the automatic sprinklers shall come into operation within the temperature range: (SOLAS II-2/12.2.4)

**A** 68 - 79°C

ISXN

An area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available is called:

**A** A1

ITAY

What surveys do not have a validity of 5 years?

**A** Safety Radio

ITCP

What do we mean to purge a cargo tank?

**A** To purge a tank means that we change atmosphere in the tank e.g. change cargo vapour with inert gas.

ITEE

For protection of crew who might come into contact with chemicals in the course of their work, the ship should have suitable equipment such as chemical resistant aprons, gloves, footwear, coveralls, face and eye shields etc. After the day's work these should be stowed:

**A** In suitable lockers easily accessible, yet segregated from the living spaces themselves?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ITKE

Give the meaning of the following symbol:

**A** evacuation slide

ITNO

What code is normally used when handling dangerous goods?

**A** IMDG - CODE

ITQJ

Which statement is correct with regards to power supply for equipment supplied through Zener-barriers?

**A** The 0-voltage must always be grounded.

ITOL

Why is temperature control accuracy so important when cleaning lub oil in a conventional separator

**A** Small changes in temperature can cause large movement of the interface

ITPC

\*What is the signal actuated by a fire detection system?

**A** A visual and audible alarm signal at the control panel

ITRO

\*What is the meaning of this symbol ?

**A** Start water-spray

ITRV

When using portable ladders during work activities onboard a ship what precautions should be taken.

**A** All of the listed alternatives.

ITRV

When using portable ladders during work activities onboard a ship what precautions should be taken.

**A** Secure the ladder top and bottom and have a shipmate standing by while you are working on the ladder.

ITWS

Give the meaning of the following symbol:

**A** liferaft

IUBR

Prior to entering a tank, the atmosphere is physically measured from deck giving reading of atmosphere to be less than 1 per cent LFL and 21 per cent oxygen. Is the tank acceptable for hot work?

**A** No. More readings should be taken and sediments, sludge and residue should be removed at least 10 m from working site.

IUBW

A chemical tanker will carry cargoes of ethanolamine, methyl acrylate, and glycerine. Which statement is true?

**A** Glycerine is compatible with both of the other cargoes.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IUED

On a UK ship where might you get a port state control inspection

- A** In any port in a country which is a member of one of the port state control regimes currently in operation, other than the UK

IUHP

What does this signal indicate?

- A** I require assistance

IUIH

Which one of the listed requirements regarding VHF radiotelephone installations do not correspond to present regulations?

- A** Cargo ships of less than 500 tons gross shall have the batteries located in the upper part of the ship

IUJJ

On which frequencies do most satellite EPIRBs operate?

- A** 121.5/406MHz

IURP

Water hammer is a shortlasting pressure peak travelling along the pipe. How can it be avoided in a cooling water system?

- A** Operate valves gradually

IURP

Water hammer is a shortlasting pressure peak travelling along the pipe. How can water hammer be avoided when operating the valves and pumps in a cooling water system?

- A** Operate valves gradually

IUTX

An EPIRB has been activated accidentally. Which of the following is correct for cancelling the false distress alert?

- A** Call the nearest coast station and inform it that a false distress alert has been transmitted

IUWK

If one requires medical advice by means of an Inmarsat-C terminal one should use the following address:

- A** 32

IVAV

Which of the following functions are chemical treatments for cooling water system designed to do?

- A** Minimize corrosion, prevent deposits and scaling, and control of biological growths.

IVDF

What percentage of anti-freeze fluid is added to the L.P.G. compressor cooling-water system?

- A** 60 %

IVGQ

On the figure there are four (4) possible directions, shown by the arrowed lines, which could be the correct direction associated with the term "HEAD LINE". Which one is the correct one?

- A** Head line is given by B on the figure



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IVHF** When an air compressor is going to be started it is important that the compressor is started with the "blow off" valves open. Why?
- A** To ensure that we do not have any water assembly in the cylinders when the compressor start.
- 
- IVHI** Which among the following list is particularly required for a totally enclosed lifeboat ?
- A** handrails for persons moving about the exterior of the lifeboat
- 
- IVIF** Please name the most common rudders as shown below? UNBALANCED, BALANCED, SEMI-BALANCED, UNDERHUNG BALANCED
- A** NO. 1,2,3 and 4
- 
- IVKX** Where should be located the VHF survival craft transceivers during normal operation of the ship ?
- A** On the bridge
- 
- IVMO** Command of radio-traffic between vessels and coast-stations lies:
- A** always with the coast-station
- 
- IVNJ** One wishes to have a telephone conversation with a person whose name is known. This is what is called:
- A** a personal call
- 
- IVPP** What is the purpose of the O.D.M.E. (Oil Discharge Monitoring Equipment) printer ?
- A** To prove that oil has been pumped overboard according to regulations
- 
- IVRK** \*Which of following items shall be included in an abandon ship drill?
- A** a mock search and rescue of passengers trapped in their staterooms
- 
- IVSE** Which of the following detailed explanations should be mentioned in the Training Manual ?
- A** How to don lifejackets, immersion suits and anti-exposure suits, as appropriate
- 
- IVWK** \*What is the approximate pressure of the CO<sub>2</sub> stored in a cylinder at an ambient temperature of +20°C?
- A** 60 bar
- 
- IVXI** In a circuit diagram of a simple hydraulic system, what does the following symbol indicate?
- A** Directional control valve.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IWDX	Which one of the given requirements regarding manning and supervision of survival craft do not correspond to the present regulations? (SOLAS III/10)
A	Every motorized survival craft shall have a certificated engineer assigned
IWES	Which of the alternative methods of using a tug when escorting a ship through narrow waters would be considered the most effective in the event of losing steering power?
A	- The tug made fast on a line through the centre lead astern, (figure 4).
IWES	Which of the alternative methods of using a tug when escorting a ship through narrow waters would be considered the most effective in the event of losing steering power?
A	The tug's bow against my stern, made fast with lines. By moving the tug to either side of my stern, this will help to steer the ship (figure 4).
IWES	Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective if you lose steering power?
A	- The tug made fast on a line through the centre lead astern, (figure 4).
IWES	Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective if you lose steering power?
A	The tug's bow against my stern, made fast with lines. By moving the tug to either side of my stern, this will help to steer the ship (figure 4).
IWES	Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective in case you lose steering power?
A	- The tug made fast on a line through the centre lead astern, (figure 4).
IWES	Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective in case you lose steering power?
A	The tug's bow against my stern, made fast with lines. By moving the tug to either side of my stern, this will help to steer the ship (figure 4).
IWGN	What levels of correction notice can be enforced by MCA surveyors?
A	Safety equipment to be made good in a given time period; Safety equipment to be made good at next port; Safety equipment to be made good before sailing; Vessel to be detained until all safety gear brought up to a minimum standard
IWHE	What kind of information must be posted in all passenger cabins?
A	The route to musterstation, how to put on lifejacket and different emergency signals used onboard the ship.
IWIF	How much water per person is provided in a lifeboat not equipped with a desalting apparatus?
A	3 litre
IWNB	Feed check valves for main and auxiliary purposes are normally of the double shut off type, as shown in the diagram. What is the main function of the non-return valve?
A	To prevent the steam and water in the boiler from discharging out by the feed line, if a feed line fracture or a joint in the line blows.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IWOD

Too low oil flow in the fuel oil purifier oil outlet line is caused by:

**A** Broken water seal.

IWQN

What is the meaning of the term purification?

**A** Separation of two insoluble liquids with different densities, and at the same time removing of solids.

IWUO

Which items are important to get an optimal separation?

**A** Correct flow, pressure and temperature. (Viscosity)

IWVQ

What corrosion prevention measures should be taken if a boiler is to be out of service for an extended period?

**A** Chemically dose and fill up.

IWWK

What is the primary function of a non-return valve fitted in the suction line of a pump?

**A** To prevent the suction line from draining and keeping the pump primed.

IXBH

Which of the survival craft listed below is equipped with a buoyant line, not less than 50m in length, of sufficient strength to tow a liferaft ?

**A** rescue boat

IXFW

What is the meaning of the medical term "Hypothermia"?

**A** Hypothermia is the condition when the core temperature of the body is lower than normal

IXHF

What do we mean with states of matter?

**A** States of matter means that a substance can exist either as solid, liquid or vapour state

IXIY

Is there a time limit for when all liferafts must have been launched after sounding of abandon ship signal.?

**A** 30 minutes

IXTV

When calibrating an pressure transducer we have to adjust both SPAN and ZERO. Please indicate in which order these adjustments should be done.

**A** First Zero adjustment and the Span adjustment. Then Zero should be rechecked.

IXUQ

Which of the following extinguishers should NOT be used on an electrical fire?

**A** Water extinguisher



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- IYBF                      The acronym MARVS is used in association with liquefied gas tanker containment systems. What is the meaning of the acronym MARVS?
- A**    The meaning of MARVS is Maximum Allowable Relief Valve Setting
- 
- IYEL                      What is the minimum distance between the helmet and the head of the wearer supposed to be?
- A**    3 cm
- 
- IYES                      What is the full title of the IMO code which applies to all gas carriers built after 1986?
- A**    The latest IMO gas code is IGC code International Code for the Construction and Equipment of ships carrying liquefied gases in bulk
- 
- IYJN                      What action should the Master take if he is suspicious of an Officer's certificate of competency?
- A**    Contact the issuing authority via the company office
- 
- IYLF                      The power requirements for the excitation winding/circuit for a 3-phase alternator operating at rated output power are supplied by:
- A**    The alternators output itself via the automatic voltage regulator
- 
- IYNT                      An immersion suit will not sustain burning or continue melting after being totally enveloped in a fire for a period of:
- A**    2 sec
- 
- IYPK                      Which function is this operational amplifier performing?
- A**    Non-inverting amplifier
- 
- IYQF                      A 3-phase induction motor is rated at 200 A Full loadline current. Its initial direct- on-line starting current will be approximately:
- A**    1000 A
- 
- IYRC                      The safety message announces that a station:
- A**    Will relay a message concerning an important navigation -or meteorological warning
- 
- IYRE                      The principal objects for boiler feed water treatment should be:
- A**    All of the mentioned reasons.
- 
- IYTO                      How much lifeboat capacity should be provided on a conventional cargo ship of more than 85 meters in length?
- A**    100% of the ships complement on each side



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

IYUJ

On area A1 the function " Transmission and reception of signals for locating " is mainly based on:

**A** the use of SART transponders

IYVI

\*What is the correct procedure to extinguish a soot fire in the exhaust boiler?

**A** Reduce speed and use soot blowers if some are fitted

IYYL

What is a hydrostatic release unit?

**A** A unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metres.

JAFM

What is the correct definition of: -fair lead?

**A** Where the mooring lines lead.

JAHH

What will you serve seafarers who has been exposed to cold?

**A** Warm nutritious drinks.

JAID

The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to

**A** Boarding, launching and clearing of survival crafts (lifeboat/liferafts) and rescue crafts (MOB-boats).

JAJB

Your ship has a mixture of stainless steel, zinc and phenoline coated tanks. When planning the stowage of cargoes on board, what primary reference source will indicate which cargo can be stowed in which coating?

**A** A resistance guide stating which chemicals are compatible with the coating.

JAJB

Your ship has a mixture of stainless steel, zinc and phenoline coated tanks. When planning the stowage of chemical cargoes on board, what primary reference source will indicate which cargo can be stowed in which coating?

**A** A resistance guide stating which chemicals are compatible with the coating.

JAKR

There is always a remote possibility that a fish and meat freezer could break down. What product should you always keep enough of in stock?

**A** Salt

JAKS

Your vessel has a controllable pitch propeller. The engine can be started when the propeller pitch is:

**A** Zero

JALM

At which time shall required fixed fire-detection and fire-alarm systems with manual operated call points be in operation? (SOLAS II-2/13.1.1)

**A** Capable of immediate operation at all times



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JALP

What is the ideal humidity in a working environment?

**A** 40 - 60 %

JALP

What is the ideal humidity in a working environment?

**A** 40 - 60 %.

JAQO

According to the rules of GMDSS the required radio-equipment depends mainly on:

**A** the sea area of the vessel

JAXC

What is STCW in the STCW Code an abbreviation for?

**A** STCW means Seafarers' Training, Certification and Watch keeping

JAXE

How many protons and electrons has a carbon atom?

**A** Carbon atom has 6 protons and electrons

JBCE

Why is it so important to suck back as much freon liquid as possible from the evaporators, before You stop the compressor?

**A** To avoid liquid coming back to the compressor during start up.

JBEN

What action should be taken by the watchkeeping engineer if the running machinery is operating at slightly high temperature but everything else appears ok?

**A** It should be brought to the attention of the Chief Engineer so that remedial action can be decided upon.

JBEN

What action should be taken by the watchkeeping engineer if the running machinery is operating at slightly high temperature but everything else appears ok?

**A** The condition shall be noted and plans for further actions developed.

JBEU

What are the main basic components of a portable extinguisher?

**A** The container, the extinguishing agent, the impulsion system

JBGH

Which of the options represents the best action to take when an item of machinery, which normally operates in automatic mode, is operated in manual mode?

**A** Monitor the operation of the machinery on a frequent basis.

JBGH

Which of the options represents the best action to take when an item of machinery, which normally operates in automatic mode, is operated in manual mode?

**A** That the main propulsion unit controls are attended under standby condition.



## CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

- JBKS** How should you, methodically speaking, get to know and to find relevant provisions in the book "Excerpts Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc" ?
- A** By help of the Headword Register, the Chronological Register, the table of contents, the tables of contents in the respective provisions, the Preface, etc.
- 
- JBKS** How should you, methodically speaking, get to know and to find relevant provisions in the book "Excerpts from the Norwegian Ship Control Legislation" ?
- A** By help of the Headword Register, the Chronological Register, the table of contents, the tables of contents in the respective provisions, the Preface, etc.
- 
- JBLI** What VHF-channel is according to the rules of the GMDSS, appointed for mutual radiotrafic between ships at sea (with the exception of co-ordination of shipping movements and other kinds of communication ..... to safety:
- A** channel 06
- 
- JBMD** How does the Norwegian Maritime Directorate keep the master/ shipowners updated on the new and amended legislation relatives to the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"
- A** Through stapled-in supplements in the quarterly NMD magazine "Navigare" and Ships Documents.
- 
- JBMD** How does the Norwegian Maritime Directorate keep the master/ shipowners updated on the new and amended legislation relatives to the book "Excerpts from the Norwegian Ship Control Legislation"
- A** Through stapled-in supplements in the quarterly NMD magazine "Navigare" and Ships Documents.
- 
- JCAG** How frequent should reports from protection and environmental work be send to shore based management?
- A** Annually.
- 
- JCAI** We have a problem with vibration in the turbocharger. What might be the cause?
- A** The turbine rotor is not balanced.
- 
- JCFG** With two alternators running in parallel, and one is to be disconnected. The first step is to:
- A** Remove the load from the alternator to be stopped
- 
- JCFL** Which regulations were laid down 19 May 1988?
- A** Regulations concerning the registration of hours worked and the format and keeping of time sheets.
- 
- JCNS** On the figure 4 possible definitions of the term "AFT" are shown. Which one is the correct one?
- A** Aft is defined as A on the figure
- 
- JCQI** What would happen if, when a ship is under-going a Port State Inspection, certificates were invalid or missing
- A** Rectification would be required before sailing





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JCVE Who has the right, in addition to the issuing authority, to inspect the ship and control the validity of the ships Safety Certificates in foreign ports?

A Inspectors from the International Maritime Organization (IMO)

JCXX Which of the following frequencies is used by the NAVTEX system ?

A 518kHz

JCYL When cleaning stainless steel tanks, it is generally required that the last water wash be of fresh water to avoid salt water or chloride damage. However, if you took fresh water from ashore and found the water chlorinated for disinfection purpose, you would:

A Normally use it, as free or dissolved chlorine is not aggressive towards stainless steel?

JDDS What is the correct name of the part highlighted in the sketch?

A Connecting rod

JDOT What is the IMDG-Code?

A A code issued by IMO for use onboard vessels carrying packaged dangerous goods?

JDPL Sometimes, in order to improve suction to the pumps when discharging "light" or "gassing" cargoes, the tanks are pressurised by admission of inert gas under overpressure from the inert gas fans. In this respect one must remember that tanks are generally dimensioned to withstand a vapour pressure of:

A 2500 mm wg?

JDQF For how long period shall a Passenger Ship Safety Certificate be issued?

A A period not exceeding 12 months

JDRW How shall you treat the dishwashing machine?

A It shall be cleaned daily and oiled and inspected regularly.

JDRX If you discover alcohol and drug abuse onboard, Whom do you report to?

A The master

JDRX If you discover alcohol and drug abuse onboard, Whom do you report to?

A The master.

JDTO Which equipment will detect a signal from a SART transponder?

A S band radar



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JDUG

The rudder is hard over, full ahead in deep water. How much lift force remains when the engine is stopped?

**A** - About 20 %

JDUG

The rudder is hard over, full ahead in deep water. How much lift force remains when the engine is stopped?

**A** About 20 %

JFWX

What would be the most probably reason for light and smoky exhaust gas?

**A** Water in a cylinder.

JFDH

In a distress situation how many times, or for how long is the emergency alarm signal to be sounded?

**A** Until all crew members and passengers have reported to their respective muster stations.

JFFD

What is the correct definition of: -lee side?

**A** The side from the wind.

JFFG

MARPOL 73/78 - Annex V. Disposal of garbage outside "Special Areas". After unpacking spares, you are left with a limited amount of packing materials. What will be the nearest distance to land for disposal into the sea of this materials?

**A** 25 miles

JFJN

Gas welding is carried out in the work shop. Prior to lunch break the following precaution is carried out:

**A** The main supply valves in the deck storage are closed prior to switching to UMS-mode

JFPI

For what reasons may SOLAS certificates be extended, where permitted

**A** To complete a voyage (max 5 months) or at a surveyor's discretion (max 1 month)

JFRS

In case a message, destined for a telex-subscriber a shore, sent via an Inmarsat-C installation on board:

**A** there is never on-line connection with the shore-subscriber

JFSQ

On board they want to establish a telex connection by HF-set with the ship Apollogracht. In the guides you find for the Apollogracht the following ID's: 244320000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:

**A** 36715

JFVX

What is the definition of a serious injury as it relates to MAIB

**A** An injury, other than a major injury, when the injured person is incapacitated for more than 3 consecutive days



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- JGAE** Visual signals are used by aircraft engaged in search and rescue operations to direct ships towards a casualty. The signals shown here are part of a sequence. What does it indicate?
- A** The aircraft is directing a vessel towards an aircraft or vessel in distress
- 
- JGBT** Give the meaning of the following symbol
- A** Radar transponder
- 
- JGGR** Are there any restriction on entry into cargo holds at sea?
- A** Permission must be obtained from Chief Officer?
- 
- JGMM** How can we avoid vacuum in the cargo tank while discharging?
- A** We can, reduce discharge rate, pump hot vapour into the cargo tank or pump some liquid back to the cargo tank
- 
- JGNK** To guarantee optimal reception of VHF-DSC-calls, every:
- A** DSC-symbol is sent twice and checked extra by Error Check Character
- 
- JGRM** Which regulations apply to the Hours of Work
- A** STCW 95
- 
- JGSJ** According to European standards (E.N.) fire can be classified...
- A** A, B, C, D
- 
- JGXH** During maintenance work on a compensated mechanical hydraulic governor air is drawn in to the hydraulic circuit after draining and flushing out the unit. Which of the actions given in the options is most likely to assist in the removal of the air from the system?
- A** With the governor in operation open the compensation needle valve to introduce
- 
- JGYG** Reflection of radio waves in the ionosphere depends on:
- A** sunspots
- 
- JHBM** Messages sent via INMARSAT C are charged
- A** on the number of kilobits of information transmitted per block of 256 bits
- 
- JHBO** What type of nozzles for fire hoses shall be used aboard ships? (SOLAS II-2/4.8.4)
- A** Dual purpose (jet/spray) type incorporating shutoff



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- JHHH** When a satellite receives a "distress alert" from a Cospas-Sarsat EPIRB, the relay of the "distress alert" can be delayed because the satellite cannot immediately contact a:
- A** LUT before the satellite is actually seen by this ground station
- 
- JHKS** What is the meaning of this symbol ?
- A** Line-throwing appliance
- 
- JHND** If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the complete rate when performing ECC?
- A** Complete 15 compressions at the rate of 80 compressions per minute
- 
- JHQR** What would be the most probable cause of light, smoky exhaust?
- A** Water in one or more cylinders.
- 
- JHRM** Which of these factors will NOT affect the necessary time needed to settle oil on top of the water in the sloptank?
- A** The quality of the Crude Oil Washing performed during the last discharging
- 
- JHUY** When a vessel violates the oil pollution laws, who may be held responsible?
- A** Any one involved in the operation
- 
- JHVV** Give the meaning of the following symbol
- A** Survival craft distress pyrotechnic signals
- 
- JHYC** You are a Senior Officer of the Watch on vessel "A" and are passing through the Straits of Gibraltar. The vessel's speed is 18 knots and your vessel is overtaking several other vessels, when the visibility reduces down to about 2 nm. What aspects would you consider when establishing a "safe speed" for your vessel?
- A** - Deciding safe speed consider: 2 miles visibility; traffic density; manoeuvrability of vessel; effectiveness of navigational equipment (ARPA etc); state of sea and currents and navigational hazards.
- 
- JHYC** You are a Senior Officer of the Watch on vessel "A" and are passing through the Straits of Gibraltar. The vessel's speed is 18 knots and your vessel is overtaking several other vessels, when the visibility reduces down to about 2 nm. What aspects would you consider when establishing a "safe speed" for your vessel?
- A** Follow your track and reduce the speed to keep your vessel in line. Overtake the other vessels after the strait is passed.
- 
- JHYU** To achieve best possible combustion in our engine, we want to have:
- A** an atomization of the fuel injected into the combustion chamber.
- 
- JICN** What is the top priority if an incident occurs in US waters (OPA-90)
- A** Safety of ship and crew



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JICP

What makes a one-way seat valve open and closed?

- A** It is higher pressure on one side of the seat than on the other side, and it is shut manually or by change of pressure on the seat

JIEU

In radio-telex distress traffic preference is given to:

- A** FEC

JIKQ

Which of the aggregate states have fixed volume, but not any fixed form.

- A** Fluids (liquids).

JIOE

How is the temperature of the high temperature circuit of a central cooling system normally controlled?

- A** By mixing with water from the low temperature circuit.

JIQO

The figure shows the cross section of a ship floating in water with the hull coloured in red and the seabed below the vessel shaded. On this figure there are four (4) possible definitions of the term "UNDERKEEL CLEARANCE" given. Which one is the correct one?

- A** Freeboard is given by B on the figure

JIRL

In F1B mode:

- A** the amplitude of the carrier-wave changes

JIUS

Under the auspices of the Paris Memorandum who would carry out Port State or Flag State inspections in the UK?

- A** Marine Officers of the MCA

JIXC

When the vessel is operating in a tropical area with very high humidity, what action should be taken to deal with the expected increase in condensate from the main diesel engines charge air cooler?

- A** Increase scavenging air temperature to above dew point

JIXC

When the vessel is operating in a tropical area with very high humidity. What action should be taken to deal with the expected increase in condensate from the main diesel engines charge air cooler?

- A** Increase scavenging air temperature to above dew point

JIXI

The following DSC message was received:(see original )This message was sent by a:

- A** vessel

JJEP

In a pump with a single impeller rotating in a case or volute form, the fluid enters the impeller axially in the center. Relative to the impeller it continues radially, and discharges around the entire impeller circumference. Is this working principle called:

- A** Dynamic pressure pump (or roto-dynamic pump).



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- JJEU** A hydraulically operated exhaust valve on a large slow speed diesel engine has been overhauled as part of the scheduled maintenance for the engine. During a test run of the engine the valve is found to be slamming shut. Which of the adjustments given in the options should be carried out to correct this
- A** The throttle valve on the hydraulic system should be closed in.
- 
- JJGL** Which one of the listed requirements regarding liferafts does not correspond to present regulations? Every liferaft shall be so constructed that:
- A** it's canopy has viewing ports in all directions
- 
- JJGL** Which one of the listed requirements regarding liferafts do not correspond to present regulations? Every liferaft shall be so constructed that:
- A** it's canopy has viewing ports in all directions
- 
- JJLF** Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A2:
- A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver
- 
- JKAN** Give the meaning of the following symbol
- A** Gas detector
- 
- JKDV** The use of steam driven ejectors for ventilation of cargo tanks containing flammable vapours is not recommended now-a-days due to:
- A** Steam at high velocities may generate static electricity which might cause incentive sparks?
- 
- JKDV** The use of steam driven ejectors for ventilation of cargo tanks having flammable vapours in them is not recommended now-a-days due to:
- A** Steam at high velocities may generate static electricity which might cause incentive sparks?
- 
- JKEW** What type of lashing arrangement are needed on weather deck for securing two container high?
- A** Twistlocks and rods with turnbuckles?
- 
- JKGC** The responsibility for the transmitting equipment lies with the:
- A** master
- 
- JKGH** If a leak occurs in a lube oil cooler, the water cannot mix with the oil because the:
- A** Oil pressure is greater than the water pressure.
- 
- JKHA** Which vitamin is found only in animal foods sources?
- A** Vitamin A



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JKHB

For which ships is the MARPOL convention applicable?

A For all vessels.

JKRE

How should you, as helmsman, give feedback to the OOW (officer on watch) that his orders are understood?

A By repeating the order

JLBA

A centrifugal filter relies on the centrifugal force and can therefore remove:

A High density, sub - micron particles.

JLBI

Which item among those below is included in the normal equipment of every lifeboat ?

A portable fire-extinguishing equipment suitable for oil fires

JLCB

Classification societies require that when initially fitted to a boiler, safety valves must be subjected to a test of accumulation of pressure. Is this to:

A Ensure the valves are of the correct discharge capacity for the boiler.

JLCY

There has been an accident on board. Urgent medical advice is needed. The call is preceded by:

A urgency signal

JLES

Which of the 3 alternatives given is correct for an AND-gate?

A Figure 3.

JLHM

During maintenance of a piston rod stuffing box on a large, slow speed diesel engine it is usual to measure the butt gaps between the sealing ring and scraper ring segments. What would be the effect of these gaps being too small?

A If the gaps are too small they could close due to the radial wear of the rings before the

JLQD

Which of the following detailed explanations should be mentioned in the Training Manual ?

A The use of the ship's line throwing apparatus

JLRA

What equipment is provided in a liferaft to help you keep warm in cold weather?

A The floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)

JLSV

\*Which of the following items SHALL be included in a fire drill?

A reporting to stations and preparing for the duties described in the muster list



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JMHV

What is the period of validity of an IOPP certificate

**A** 5 years

JMLY

Which of the following are frequent causes of fires in accommodation?

**A** 1 Smoking in bed. 2 Covering of electric fires with blankets. 3 Overloading electric plugs.

JMMT

If you detect a fire on board the ship, dependent on the situation, which of the following actions is the first to be taken?

**A** Raise the fire alarm.

JMUH

The image shows an indicator diagram taken from a diesel engine cylinder . Which of the following options is the action most likely to identify the fault.?

**A** Check fuel injector valve, fuel injection timing, fuel pump suction valve and fuel pump lead

JMUH

The image shows an indicator diagram taken from a diesel engine cylinder. Which of the following options is the action most likely to identify the fault.?

**A** Check fuel injector valve, fuel injection timing, fuel pump suction valve and fuel pump lead

JMUI

You are berthed with a steady offshore beam wind of 30 knots. This wind suddenly increases to 60 knots. When this happens , the force driving the vessel off-berth will be:

**A** Quadrupled

JMUI

You are berthed with a steady offshore beam wind of 30 knots. This wind suddenly increases to 60 knots. When this happens , the force driving the vessel off-berth will be:

**A** - The force will be Quadrupled

JMUI

You are berthed with a steady offshore beam wind of 30 knots which suddenly increases to 60 knots. When this happens, the force driving the vessel off-berth will be:

**A** Quadrupled

JMUI

You are berthed with a steady offshore beam wind of 30 knots which suddenly increases to 60 knots. When this happens, the force driving the vessel off-berth will be:

**A** - The force will be Quadrupled

JMVB

Who has the overall responsibility for the general supervision of ships and for matters governing the seaworthiness of ships?

**A** The Norwegian Maritime Directorate

JMYM

In a circuit diagram of a simple hydraulic circuit, what does the following symbol indicate?

**A** Double check valve.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JMYM

In a circuit diagram of a simple hydraulic circuit, which of the alternatives does the following symbol indicate?

- A** Double check valve.

JNDM

Satellites which receive the 406 MHz Cospas-Sarsat EPIRB are:

- A** capable to determine the position of the EPIRB

JNIS

You want to make a telephone call to another ship operating in Indian Ocean Region. Which sequence will you key into your INMARSAT A terminal?

- A** CES two digits code # 00 873 SES INMARSAT code #

JNOB

What is the resistance value of this resistor:

- A** 10 k ohm

JNOB

What is the resistance value of this resistor:

- A** 10 M ohm

JNPC

What do you call the method used for bone-soft part injuries?

- A** ICE-method.

JNTH

Where can you find what your duties are during a life boat drill?

- A** Alarm instruction.

JNTH

Where can you find what your duties are during a life boat drill?

- A** Muster List

JNTN

Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A1:

- A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver- 2 or 3 VHF portable - 1 EPIRB

JNUC

How should the sample locker be fire protected ?

- A** It should be protected by a fixed fire fighting system i.e. sprinkler system.

JNUH

Which item among those below is included in the normal equipment of every lifeboat ?

- A** a food ration for each person



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JNXO

Which item among those below is included in the normal equipment of every lifeboat ?

- A** one copy of the prescribed life-saving signals

JOCU

The explosive range of petroleum vapors mixed with air is :

- A** 1% to 10%

JOKT

If the heat transfer capacity in a heat exchanger is dropping, the following action should be taken:

- A** Clean the heat transfer surface

JOKT

If the heat transfer capacity in a heat exchanger is dropping, the following action should be taken:

- A** The heat transfer surfaces should be cleaned

JOPB

An O/O ship mean Ore/ Oil, but what can she really carry?

- A** Either Ore or Oil.

JORR

The following DSC-message was received:(see original )TELECOM: G3E SIMP TEL means:

- A** go to simplex telephony

JOSN

Which of the following regions lies outside Sea Areas A1, A2, and A3?

- A** Sea Area A4.

JPGR

Which one of the listed requirements regarding the stowage of rescue boats corresponds to present SOLAS regulations. Rescue boats shall be \*stowed:

- A** So that neither the rescue boat nor its launching arrangements will interfere with any survival craft at any other launching station

JPJV

What is the meaning of split-range

- A** Several control-valves are connected to the same controller

JPKQ

For a large increase in the specific gravity of the oil, the gravity disc hole diameter should be:

- A** Reduced.

JPOX

On which channel a ship must maintain a continuous watch when sailing in area A1?

- A** 70



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JPPA

What is a proper look out?

- A** A balanced assessment between keeping a visual lookout and monitoring the radar

JPTG

What is the function of the ESD on a gas carrier?

- A** The function of the ESD is to close loading valves, switch of power to cargo compressors and pumps

JPYF

Give the meaning of the following symbol

- A** Area protected by halon

JQBS

Some centrifugal cargo oil pumps are designed with an automatic stripping system, which allows the cargo oil tank to fully discharge its contents. By what principle does such a stripping system operate?

- A** To maintain the required pressure and flow to the machine in use.

JQCH

What are the duties of the bridge lookout during the night, when the vessel is in the middle of the ocean?

- A** He wants the OS to show him where the switch that changes between automatic, manual, and emergency steering is

JQFQ

When could there be a demonstration of how to start a lifeboat engine?

- A** He wants the Chief Officer to organise a lifeboat drill

JQKS

When modulating the amplitude:

- A** the amplitude is modulated

JQLJ

What legislation governs UK ship registration

- A** Merchant Shipping Act 1995 and Merchant Shipping (Registration of Ships) Regs 1993

JQLN

At what latest time shall doors, sidescuttles, gangway doors, cargo- and coaling ports and other openings which are to be kept closed watertight at sea be closed at the start of the voyage?

- A** Before leaving the port

JQMN

The wave length of a radio signal in the ether is mainly determined by:

- A** frequency

JQQS

On chemical tankers, where dangers of both flammable & toxic gases exist, instruments to detect these shall be provided.If portable equipment is provided, you shall have:

- A** At least two sets of instruments to detect each type of gas expected to be encountered?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JQWN

Give the meaning of the following symbol

**A** Fire main with fire valves

JQXA

What advantage(s) has the use of Inert Gas System on a oil tanker?

**A** Lowers oxygen content in the tank

JQYB

What class of fire involves gas?

**A** Class C fire

JQYS

\*Which of the following measures should be applied when hot work is to be undertaken in a harbour.

**A** To have a hot-work permit

JRCD

An area A2 is:

**A** an area excluding sea area A1 within the radiotelephone coverage of at least one MF coast station in which continuous DSC alerting is available

JRDY

How many maintenance methods must be provided by ships sailing in area A1 and A2

**A** 1

JRHG

Which wave length applies to a frequency of 2000 kHz?

**A** 150 mtr

JRHI

A VHF transmission range is mainly determined by:

**A** the height of the aerial

JRLN

What is the meaning of "stand by"?

**A** That the watch keeping personnel shall be ready for starting or manoeuvring the main engine.

JRUR

What type of vessel is this?

**A** Vessel not under command and not making way

JRUT

In case of a fire inside the Acetylene-line in the ac/ox gas welding equipment, what action is deemed necessary?

**A** Close the valves on both the Acetylene and the Oxygen bottles.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JSAJ

The "clarifier" has only effect during:

- A** Receiving in mode J3E

JSBE

What are the duties of the master regarding a sick or injured seafarer?

- A** He shall arrange for proper, including medical, care.

JSFO

What is the difference between the Safety Representative and the Working Environment Committees area of activity?

- A** The supervisor's field is the work situation, the committee's the total environment, also spare time

JSGE

\*What quantity of service fuel must be available for a diesel driven emergency pump before it is necessary to use any reserve fuel?

- A** To allow at least 3 hours of operation

JSIB

Why is it important to have good list during final draining?

- A** To bring the remaining oil to the stripping suction

JSMW

How can we maintain necessary NPSH?

- A** By control of liquid flow

JSNV

You are duty officer on board a vessel in open sea. The look out is doing work and you are alone on the bridge, presently checking the position in the chartroom. Suddenly you are colliding with a fishing vessel. You will be most to blame for the collision, because of:

- A** You did not maintain a proper lookout by all available means

JSOP

A severe blow to or a heavy fall on the upper part of the abdomen (solar plexus) can upset the regularity of breathing. What is the symptoms and signs?

- A** Difficulty in breathing in and the casualty may be unable to speak.

JSWF

During cargo handling in rainy weather, which action have to be taken for drainage of water from the deck area?

- A** The water to be drained periodically and scuppers to be closed in between. Oily water to be transferred to slop tanks or other suitable receptacle?

JTBC

What class of fire is a smouldering fire of wood, textiles, paper and other carbonaceous materials?

- A** Class A

JTIQ

The deaerating heater is used on

- A** The closed-type feed-water system



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JTJS

MF radio signals mainly propagate mainly:

- A** along the curvature of the earth

JTLD

The most important preparation prior to Arrival to / Departure from ports is:

- A** Start an additional auxiliary engine

JTPI

Which vitamin is most easily destroyed by boiling?

- A** Vitamin C

JTQE

\*The biggest lifeboats on board ships may accommodate

- A** up to 150 persons

JTRF

Which item among those below is included in the normal equipment of every rescue boat ?

- A** sufficient buoyant oars or paddles provided with thole pins or crutches

JTXR

Anyone who makes or permits a false entry to be made in the logbook shall be punished by imprisonment of up to 1 year according to:

- A** The General Civil Penalty Code § 315 .

JTXR

Anyone who makes or permits a false entry to be made in the logbook, shall be punished by imprisonment of up to 2 years according to:

- A** The General Civil Penalty Code § 315 .

JUEN

To avoid overbunkering and/or oil spill, preparation has to be done, and a check list made, to ensure that nothing has been forgotten. Which point on this list do you consider as most important (one answer only)?

- A** If you are taking bunker on the port side of the vessel, check that the starboard manifold is closed and blanked off

JUEQ

What is the correct definition of: -let go?

- A** Cast off the rope.

JUES

We are taking a crankshaft deflection control of the engine. The reason is:

- A** To check for wear down of the main bearings

JUES

We are taking a crankshaft deflection control of the engine. The reason is:

- A** to control the wear down of the main bearings.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JUHV

What does the word "pyrotechnics" mean?

- A** Pyrotechnics are the items which are capable of self-contained chemical reactions for the production heat, light, smoke and/or sound

JUHY

The ship-shore HF-telephone-channel 1615 consists of the frequencies 16402.0 kHz and 17284.0 kHz. In case of manual operation, one should tune the receiver on:

- A** 17284.0 kHz

JUIQ

The charge air pressure is reduced with 0,2 bar. What is the result of that?

- A** The performance of the engine is reduced noticeably.

JUIS

The maximum rudder angle on your ship is 35 degrees. Do you think this is the angle that the rudder is most effective?

- A** No, the most effective rudder angle is about 25 to 30 degrees, this is because the rudder is "stalling" at 35 degrees angle

JUMT

The pressure in the fresh water cooling system for a diesel engine is fluctuating while the engine is running. When the engine is stopped the pressure is steady. What is the likely cause of this problem?

- A** You have a cracked liner, or cover.

JUPC

How should the tug be secured to the ship, when the bridge tells the poop that "It is the tugs wire"??

- A** He wants two spring lines, four stern lines and no breasts

JUSP

Has economy anything to do with cleaning?

- A** Yes, cleaning is maintenance and contributes to keep expenses down.

JVBE

What would be the most probable cause of too high exhaust gas temperatures in all the cylinders?

- A** The chain is slack, dirty turbocharger or glogged turbocharger filter.

JVDO

What will You do if the liquid start raising in the Surge Drum? (Direct cooling system)

- A** Immediately reduce on the suction valve, and watch the Open more on the suction valve gauge.

JVIQ

Which of the following information shall be specified by the muster list ?

- A** action to be taken by crew and passengers

JVIQ

Which of the following information shall be specified by the muster list?

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**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- JVMT** In what format will an On-Scene Co-ordinator report such information as on-scene weather and operation progress to other parties?
- A** - SITREP
- 
- JVPG** Which regulations detail the work of safety officials
- A** The MS and FV (Health & Safety at Work) Regulations 1997 (The HSW Regulations)
- 
- JVPH** What is one of several requirements in IBC/BCH when loading Acids ?
- A** Connections on manifolds and jumpers should be protected with spray shields to guard against spray.
- 
- JWAG** Which of the following is a significant advantage of Crude Oil washing over water washing?
- A** To fill up the lines slowly.
- 
- JWHU** DSC uses for automatic identification the MMSI. The identification 002442000 is assigned to:
- A** a coast-station or coastguard-station
- 
- JWHW** The display of a DSC-controller on board shows the following options: (see original) If a DSC-message is intended for vessels in a certain geographical area, one chooses:
- A** G.Area
- 
- JWIN** Which factor influences the pumping capacity (flow) of a centrifugal pump the most?
- A** Total pressure head
- 
- JWLW** Which items are important to get an optimal separation?
- A** Correct flow, pressure and temperature. (Viscosity)
- 
- JWOJ** Where is the best position of the oil/water interface in these figures?
- A** Position A.
- 
- JWUC** Optimum cleaning effect in a lube oil purifier is achieved by:
- A** Keeping the lube oil in a state of low viscosity for a long period in the centrifuge bowl.
- 
- JWWL** A detector that is activated by a rise of temperature is:
- A** a thermic detector





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JWWN

Which vitamin is there most of in flour and corn products?

**A** Vitamin B

JWXG

Which of the following is a staple part of the Scandinavian diet?

**A** Potatoes.

JWXH

How is the officers of passenger ships to be informed of the ships stability in damaged conditions?

**A** By permanently exhibited damage control plans

JWXI

For how long should a tank be ventilated when people are working inside?

**A** For as long as people are working in the tank.

JWXR

What are the compartments to be regularly checked with regard to water and oil leakages?

**A** All those listed in the other alternatives

JXNL

Vent fans and fan ducts located in hazardous locations, if made of ferrous materials, require a certain clearance between the impeller tips and the casing (to preclude any sparking). If you are doing an overhaul, you would ensure this clearance is at least:

**A** 13.0 mm?

JXQR

Give the meaning of the following symbol

**A** Rocket parachute flares

JXTB

How will you treat a seasick person?

**A** Leave him in bed or request him to have some fresh air.

JXXF

Define the class of emission H3E :

**A** Radiotelephony - Single sideband full carrier

JYCG

In case a fire alarm is sounded from the bridge, what action would you take as Engineer on Duty?

**A** Start the fire pump

JYJE

You are going to leave a crowded anchorage and make a 180 degrees turn. Your ship has a right handed propeller and you can turn either way. How can you make the turn using as little space as possible?

**A** - Rudder hard to port, full astern. After gaining some sternway, rudder hard to starboard and full ahead



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

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JYKY Which channels are required for the portable two-way VHF's for survival craft?

A Channel 16 plus another one

JYLQ \*What is the maximum floor area that one smoke detector can cover?

A 74 m<sup>2</sup>

JYLR Where would we find information regarding fire extinguishers, fire doors, remote release buttons, fire equipment etc. onboard a ship?

A On the ship fire plan

JYLS Which item among those below is included in the normal equipment of every lifeboat ?

A a radar reflector or a radar transponder

JYMM \*Where detectors of a fixed fire detection system are grouped in sections, each of these sections:

A None of the answers is correct

JYMM \*Where detectors of a fixed fire detection system are grouped in sections, each of these sections:

A None of the answers is good

JYNF Why is it important that a transmitter has been correctly installed at the correct location

A The control system is depending on the best possible process signal

JYNF Why is it important that a transmitter has been correctly installed at the correct place

A The control system is depending on the best possible process signal



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

JYNH

\*Which of the following requirements applies to the inert gas system of a tanker?

A All these requirements apply

JYOE

The main engine is running steady. What is the normal shut down pressure for "Lub.oil inlet to main bearings"?

A 1,0 Bar

JYQO

What is the correct temperature when washing bedcovers, sheets and pillowcases of cotton fabric?

A Up to 90 C

JYQS

Where may as a general rule pressure containers for gas fire-extinguishing medium be kept? (SOLAS II-2/5.1.10)

A Outside the space which is to be protected

JYTJ

When checking the closed butt gap clearance of new piston rings prior to fitting onto the piston it is normal to try the rings in the liner so that the gap can be measured. From the options given select the best part of the liner to use to carry out these checks.

A Near the bottom of the liner.

JYWL

By non-reduced transmitting power in VHF is meant in a power between:

A 6 - 25 watt

JYYX

Which document must a foreign master definitely have before his documents may be considered for public supervision of maritime service?

A A letter "Exemption from the nationality requirement for foreign shipmasters"

KACN

What is the definition of a "Type 2" ship ?

A A chemical tanker intended to transport cargoes mentioned in IBC/BCH chapter 17 with appreciably severe environmental and safety hazards which require significant preventive measures to preclude an escape of such cargo.

KAJE

The meaning of lapping a valve and valve seat is:

A Grind the valve against the valve seat to obtain a uniform sealing surface.

KANK

The position of a 1,6 GHz Inmarsat-EPIRB is:

A given by the EPIRB itself

KAVO

\*Which of the following is a halogenated hydrocarbon that can be found onboard existing ships as an extinguishing agent for a fixed system?

A 1301



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KAVW

How much food per person is supplied on a liferaft?

A Not less than 10000 kJ

KBCO

When a DSC-message of the 'distress' category is received, in order to start distress alert communication in so far as not indicated in the alert by switching (changing) to VHF channel:

A 16

KBCO

When a DSC-message of the 'distress' category is received, in order to start distress alert communication in so far as not indicated in the alert, you will switch to VHF channel:

A 16

KBCO

When a DSC-message of the 'distress' category is received, in order to start distress alert communication in so far as not indicated in the alert, you will switch to VNF channel:

A 16

KBCP

What is meant by a two stage compressor ?

A Air from stage one goes through discharge valves in stage one and through suction valves into stage two. In stage two it will be compressed to high pressure air.

KBEA

Are there any differences between "Clean Ballast Tanks" (CBT) and "Segregated Ballast Tanks"(SBT)?

A CBTs cargo tanks are also used for ballast, SBTs are not.

KBEX

When overhauling the cylinder covers on a modern 4-stroke engine, is it important not to interchange inlet and exhaust valves?

A Important due to different material and working conditions.

KBGS

\*What is the only reliable way of checking that the CO2 cartridge in a dry powder extinguisher is full?

A Remove the cartridge and weigh it to check that it has the full weight stamped on it

KBXK

If requested by a coastal radio station to participate in a rescue operation, what is the most important information you may give?

A Your position, name, call sign and speed

KBYD

Which of the following liquefied gas carrier cargo tank types, if any, are considered to be self supporting in the loaded condition?

A Membrane tanks are not self-supporting

KCCQ

The impedance of a coax cable for the VHF-set depends on:

A the structure dimensions and the material of the coax cable



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KCQT

If abnormal vibration occurs, what will You do?

- A** Stop the purifier immediately, and make sure the oil is being feed to the bowl.

KCRF

In accommodation spaces, where must manually operated call points be located?

- A** At exits and in corridors

KCRJ

What is the purpose of a painter?

- A** To keep the lifeboat in an accurate position close to the vessel

KCSI

At what temperature would you expect to carry a fully refrigerated cargo of ammonia?

- A** - 33° C

KDBI

During a bomb search, which of the following is an important principle to follow?

- A** Do not touch any suspicious packages

KDOB

Your engine is going astern and you pick up sternway. The rudder is midships, and you are operating on a single, right-handed fixed screw. How will your ship react?

- A** She will most likely change heading to starboard

KDOW

\*Give the meaning of the following symbol

- A** Release gripes

KDSY

What is the general emergency alarm signal to be sounded by the ships whistle and alarm bells in case of an emergency situation?

- A** Seven short blasts followed by one prolonged blast

KDYY

How is the basic safety manning determined?

- A** The Norwegian Maritime Directorate determines the basic safety manning after an evaluation which includes, inter alia, job specifications and qualification requirements.

KEAK

Which class of emission is used for FEC NBDP transmissions ?

- A** F1B

KEAO

How much liferaft capacity should be provided on a conventional cargo ship of more than 85 meters in length, built after July 1986?

- A** 100% of the complement if it can be readily launched on either side of the ship. If it cannot be readily launched on either side, 100% must be provided on each side



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KECH

What kind of permits have to be obtained before starting cold work in tanks?

- A** Cold work permit + Permit for entry .

KEGJ

From TOV you withdraw free water, what do you get then?

- A** GOV (gross observed volume).

KEGO

This vessel is encountered at the mouth of a river which leads to your discharge port. What do the various shapes tell you?

- A** Vessel engaged in dredging or underwater operations, indicating that you should pass on the dredgers port side

KEJU

If you are to use a newly installed mechanical pilot hoist arrangement to pick up a pilot:

- A** It is necessary to have a pilot ladder rigged and reaching from deck to the waterline, next to the pilot hoist.

KEKK

In the situation illustrated, a ship is proceeding in the centre of the channel and approaching a bend in a river. How much helm would probably be required to safely round the bend and what other effects could be expected in this situation?

- A** Give starboard rudder in order to balance the force of the bank effect and rudder effect

KEKK

In the situation illustrated, a ship is proceeding in the centre of the channel and approaching a bend in a river. How much helm would probably be required to safely round the bend and what other effects could be expected in this situation?

- A** The heading should be carefully monitored, some port rudder may be required to start the swing, though starboard rudder may be required to balance anvbank rejection.

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KEKN

\*Give the meaning of the following symbol

- A** Fasten seat belts

KEKU

An inflatable liferaft accommodating 12 persons is fitted with:

- A** 2 entrances among which one is fitted with a semi-rigid boarding ramp

KELH

In chemical tankers, to avoid having a deteriorating effect on cargoes and also to avoid cargoes attacking them, steam heating coil are generally made of:

- A** Stainless steel?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- KELO** When loading bulk liquid cargo, what is the first action you should take if a cargo valve jammed open?
- A** Order the dock man to shut down.
- 
- KEMH** What is the adequate marking of liferafts for passenger ships on short international voyages?
- A** SOLAS B PACK
- 
- KENW** How many digits are there in a MMSI number?
- A** Nine.
- 
- KEPR** VHF channel 17 is used for:
- A** Intra-ship traffic
- 
- KESU** The main buoyancy chamber of an inflatable liferaft must be divided into:
- A** 2 compartments
- 
- KEUN** In a fuel oil separator liquid flows out through bowl casing drain and/or sludge outlet. What is the reason to this?
- A** Any of the others.
- 
- KEVJ** A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?
- A** Under the forecastle.
- 
- KFAI** How will continuous low load operation influence the service interval of the cylinder covers on a 4-stroke engine?
- A** Reduce the service interval
- 
- KFAI** How will continuous low load operation influence the time between overhauls, tbo, for the cylinder covers and associated valves of a 4-stroke diesel engine?
- A** Reduce the service interval
- 
- KFBJ** A frequency is measured in :
- A** Hertz
- 
- KFCD** For a Nitrite - Borate based cooling water treatment system, what would be considered to be the normal nitrite concentration limits for a correctly dosed system?
- A** 1000-2000 PPM Nitrate.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KFCD	For a Nitrite - Borate based cooling water treatment system, what would be considered to be the normal nitrite concentration limits for a correctly dosed system?
A	1500-3000 ppm Nitrite.
KFGL	Which of the following letter combinations represents a flow indicating controller on a process and instrumentation diagram
A	FIC
KFGL	Which of the following letter combinations represents a flow indicating controller on a process and instrumentation diagram
A	FIC
KFHC	Who is responsible for lifting equipment, such as: Strops - Slings - Pallets?
A	The vessel?
KFMA	When loading provisions/stores in a tropical harbour on sunny days, which of the following would you arrange to get out of the sun as soon as possible?
A	Eggs
KFMA	When loading provisions/stores in a tropical harbour on sunny day, which of the following would you arrange to get out of the sun as quickly as possible?
A	Eggs
KFMF	Which of the following answers would best define the term "risk"?
A	Risk involves both identification of the occurrence and the likelihood that it will happen
KFMF	Which of the following answers would best define the term "risk"?
A	- Risk is a situation involving exposure to danger and includes both identification of the occurrence and the likelihood that it will happen.
KFMY	When installing a new water gauge glass you should secure the bolts from
A	Center, alternately towards each end
KFQH	With reference to using centrifuges for cleaning fuel and lubricating oil what is the difference between a purifier and a clarifier.
A	In a clarifier only solids are removed from the oil, whereas in a purifier both solids and
KFQH	With reference to using centrifuges for cleaning fuel and lubricating oil what is the difference between a purifier and a clarifier.
A	In a clarifier solids are removed from oil, whereas in a purifier solids and water are removed from oil





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KFQI	Which of the following measures should rather be considered as a prevention measure than as a protection measure?
A	Restriction in the usage of combustible materials
KFTT	With reference to non-VIT diesel engine high pressure fuel pumps that have helix control, how is the timing of fuel injection normally adjusted?
A	By raising or lowering the pump plunger relative to the pump barrel
KFTT	With reference to non-VIT diesel engine high pressure fuel pumps that have helix control, how is the timing of fuel injection normally adjusted?
A	The edge on the plunger which opens for the return line
KGBF	What is the main raw ingredient used to produce margarine?
A	Vegetable oil and cooking oil
KGJR	What is the ISM Code?
A	The ISM Code is an international management code for the safe operation and for pollution prevention (Indian Safety Management (ISM) Code).
KGMX	What is the purpose of the Ship Security Plan?
A	Protect your ship from risks posed by security threats or incidents
KGQE	If during a safety officers inspection he found, what was considered to be an unsafe practice, what actions would he take
A	If the work could result in a serious injury, the work should be stopped immediately, and the master informed, then improved control methods put in place-otherwise personnel involved informed and alternative work methods employed
KGTH	Give the meaning of the following symbol
A	Primary means of escape
KGTP	Radio signals in the HF channels propagate mainly:
A	through hops between the ionised layers and the earth
KGYJ	How often do you have to certify cargo hoses?
A	Every 12 month
KHBC	Which provisions generally speaking govern the rights and duties of the employee and employer on NIS ships?
A	Norwegian Seamen's Act, NIS Act



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KHHS

\*Which of the following detailed explanations should be mentioned in the Training Manual ?

**A** The illumination in launching areas

KHJK

How is a cargo tank on a gas carrier secured against to be overfilled?

**A** In the cargo tank there is a float on 99% filling that will give an alarm then close the loading valve to the tank when liquid reach the float

KHPI

New MARPOL regulations came into effect from July 93 stating that the oily water separator which was previously certified for 100 ppm be changed to:

**A** 15 ppm

KHPK

When you are going to take bunker oil, it is important to know what space is available in your tanks, and to do a safe bunker operation. What will you prefer?

**A** Do a complete sounding of all bunker tanks

KHRP

Give the meaning of the following symbol

**A** International shore connection

KHRV

The ship-shore HF-telephone-channel 2228 consists of the frequencies 22081.0 kHz and 22777.0 kHz. In case of manual operation, one should tune the receiver on:

**A** 22777.0 kHz

KHSQ

In an inert gas system audible and visible alarms shall be provided to indicate faulty conditions in the installation. Which of the following conditions do not activate the alarms? (SOLAS)

**A** High air pressure in water seal

KHSQ

In an inert gas system audible and visible alarms shall be provided to indicate faulty conditions in the installation. Which of the following conditions do not activate the alarms? (SOLAS II-2/62.19.1)

**A** High air pressure in water seal

KHTO

Which spaces, in regard to fire protection, shall be separated from the rest of the ship by thermal and structural boundaries? (SOLAS II-2/2.2.2)

**A** Accommodation

KHVA

What is the normal procedure for safe operation when one of the main engine fuel pumps is to be put out of action?

**A** Reduce main engine setting to stop

KHWQ

During inspection of the crank bearing for one of the units in the main engine, the bearing shell was found as follows: Surface of the white metal was black and very hard. Patches of black incrustations have worn grooves in the journal. What is the likely cause of this condition?

**A** Water in the lubricating oil during service



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- KHWQ** During inspection of the crank bearing for one of the units in the main engine, the bearing shell was found as follows: Surface of the white metal was black and very hard. Patches of black incrustations have worn grooves in the journal. What was the cause?
- A** Water in the lubricating oil during service
- 
- KHWS** The presence of a VHF-installation is primarily intended to:
- A** enhance the safety of lives at sea
- 
- KHWX** What should be possible to do in cofferdams and ballast tanks surrounding a cargo tank planned to carry Propylene Oxide ?
- A** It should be possible to inert and maintain a O<sub>2</sub> content of less than 2 %.
- 
- KHWX** What should be possible to do in cofferdams and ballast tanks surrounding a cargo tank planned to carry Propylene Oxide ?
- A** It should be possible to inert and maintain a O<sub>2</sub> content of less than 2 %.
- 
- KICL** On chemical tankers, where dangers of both flammable & toxic gases exist, instruments to detect these shall be provided. If portable equipment is provided, you shall have:
- A** At least two sets of instruments to detect each type of gas expected to be encountered?
- 
- KIKI** It is late night and a tanker has just been involved in a collision. Should the tanker, prior to the collision, carry a red light in addition to the normal navigation lights. Is this correct?
- A** No, the tanker should show the normal navigation lights only
- 
- KILB** What would be the most probable cause of too low exhaust gas temperature from one cylinder?
- A** Injection valve has too high opening pressure.
- 
- KILB** What would be the most probable cause of too low exhaust gas temperature from one cylinder?
- A** The opening pressure for the injection valve for the cylinder is set too high.
- 
- KILD** Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. What is the Recovery Position?
- A** As shown in figure 1.
- 
- KIMW** Give the meaning of the following symbol
- A** Rocket parachute flares
- 
- KIOJ** The Inmarsat-satellites are located:
- A** above the equator



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- KIQX** You have abandoned ship in a liferaft. In most cases, which of the following actions should you generally take?
- A** Organise a lookout system. Join up with other survival craft if possible. Stream the sea anchor
- 
- KIXP** What is supervision of maritime service of seafarers?
- A** Control by the master/employer and public supervisory authority that the requirements of law or agreement concerning the employee's service on board are satisfied.
- 
- KJFY** When a sudden increase in pressure occurs in a forced lubrication system, you should check for:
- A** Loss of supply to one of the bearings.
- 
- KJIF** What measures regarding ship stability should be taken in order to make passenger ships able to withstand critical damage?
- A** Maintain sufficient intact stability
- 
- KJIN** \*Besides the official language of registration, what language is used in the fire control plans and booklets?
- A** English or French
- 
- KJJK** Which one of the listed requirements regarding immersion suits do not correspond to present regulations? The immersion suit shall be made of waterproof materials and constructed such that:
- A** it will have sufficient built in buoyancy to avoid the use of a lifejacket
- 
- KJPW** Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:
- A** it can be dropped from a height of maximum 18 metres
- 
- KJSK** Describe the process of closing the Crew Agreement
- A** Each crew member signs in part b of the applicable crew agreement and the master or deputy signs in part c below the signature of the seamen. The discharge book is signed by the master and given to the seaman. An entry is made in the official log book ind
- 
- KJXL** After discharging acids, i.e sulphuric acid, what is the correct procedure ?
- A** Add some m<sup>3</sup> of cold water, preferably freshwater into the tank at high speed without pumping out in order to avoid heat reaction.
- 
- KJXP** On a fire patrol at night you see smoke coming from a closed cabin door. What action should you take first?
- A** Activate the nearest fire alarm button and advise bridge of the location of the fire.
- 
- KKDD** \*Most frequent volumes for only one air bottle of a standard self-contained breathing apparatus are
- A** 6 and 7 litres



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KKEX

Why must water never be poured into boiling fat?

- A** The water will explode into steam causing hot fat to be thrown far away thus possibly causing severe burns or fire.

KKFP

\*At what temperature do the sprinklers come into operation in accommodation and service spaces ?

- A** Within 68 °C to 79 °C

KKFS

Automatic shutdown of the inert gas blowers and gas regulating valve shall be arranged in case of faulty condition in the inert gas system. Which of the following conditions has not correct value (high/low) in relation to automatic stop according to present regulations?

- A** High water level in the water seal

KKHQ

Several cargoes require determination of pH values (acidity) which is often a measure of quality or degradation of cargo such as animal or vegetable oil during transport. A neutral solution has a pH value of:

- A** 7

KKID

Which of the following cuts of beef is taken from the shoulder?

- A** Rump.

KKNI

What kind of cleaning product would you use to remove rust and ruststains in the accommodation?

- A** Strong acidic solution.

KKXI

For gauging tanks (from ullage ports) that are being loaded with static accumulator cargoes, you may, at any time during the loading use:

- A** Ropes made of natural fibres, such as manila or cotton with non-metallic, non-conductive equipment at the lower end?

KLAP

What is the meaning of "Make Fast"?

- A** To secure the rope.

KLAT

What alarm signal is to be sounded by the alarm bells in case of fire onboard ships?

- A** Series of short blasts

KLDY

A pilot ladder shall, to prevent twisting, be fitted with battens. The lowest batten shall be the 5th step from the lower end of the pilot ladder. At what intervals should there be further battens upwards on the pilot ladder?

- A** At intervals not exceeding 9 steps.

KLJY

The engine RPM drops because of:

- A** Clogged turbocharger filters.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KLOY

Which one of the following is a limitation on the use of chemical powders?

A All of the answers are good

KLSC

A Category "B" Chemical Cargo which has a melting point of more than 15° C. can be carried:

A In tanks not adjacent to the ship's shell plating having heating coils?

KLTB

When would the Chief Officer wish to consult the First Engineer?

A Draught is indicated by D, in the figure

KMAT

Define the class of emission G3E :

A Radiotelephony - Phase modulation

KMGN

During mooring operations which is the safe place to be in?

A Outside the colored zone.

KMJW

Which of the following pumps will be damaged if the discharge valve is closed before the motor is stopped?

A Gear pump

KMJY

In a purifier assuming the separating temperature is correct, what is probably wrong if processed oil contains water

A Gravity disc is too small. Flow rate is too high

KMOT

Give the meaning of the following symbol

A CO2 horn

KMRE

What does it mean "to take the ullage"?

A To measure the distance from the deck or tank cover measuring point to the liquid level in a tank.

KMTS

What should be observed concerning the vessels stress?

A Distribution and weight of the containers?

KMVP

The pressure in a flexible fire hose must be set up

A After it has been laid down



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KMWH

What does ISM stand for?

- A** The International Management Code for the Safe Operation of Ships and for Pollution Prevention

KNDQ

What are the employers duties in respect to personal protective equipment

- A** They must ensure that workers are provided with suitable protective clothing where it is needed

KNER

How can you avoid and/or reduce potential panic among passengers, if a dangerous situation occur?

- A** Inform passengers at frequent intervals over the public announcement system about the situation and how they shall act. Use as many of the ships officers and crew among the passengers to assist.

KNLD

Why is it important that all the system valves are closed after completing bilge or ballast pumping operations?

- A** For safety reasons, otherwise seawater could enter the engine room.

KNME

Emergency position-indicating radio beacons (EPIRB) to be carried in survival craft shall provide transmissions to enable aircrafts to locate the survival craft. Which one of the listed requirements to radio beacons do not correspond to present regulations? Emergency position-indicating radio beacons shall:

- A** be automatically activated when floating in water

KNNW

During the ship to ship cargo transfer operation if any considerable amount of oil is spilt and trapped between both ships, where risk of ignition due to incensive sparks caused by metal to metal contact, such as fender support steel nets/chains and shipside do exist, you should:

- A** Cover the spillage with a layer of foam.

KNOQ

What is the difference between an independent tank type A and independent tank type C

- A** Independent tank type A need secondary barrier

KNPO

On average, how much filter-ground coffee would you need for a crew of 20 filipinos and 10 norwegians for six months?

- A** 180 kg

KNSC

The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

- A** Preparation of survival crafts' Emergency Position Indicating Radio Beacons (EPIRRB).

KNTU

Which one among the following information shall be marked on the container of an inflatable liferaft:

- A** length of painter

KOHT

The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

- A** Best use of the survival craft facilities in order to survive



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- KOHY** Among working conditions listed below which one is required for every propulsion engine of lifeboats?
- A** Not less than 5 min after starting from cold with the lifeboat out of the water
- 
- KOIR** What is the purpose of the alternator reverse power trip?
- A** To prevent the alternator from "motoring" by being supplied power from other parallel
- 
- KOIR** What is the purpose of the alternator reverse power trip?
- A** To prevent the alternator from "motoring" by being supplied power from other parallel alternator
- 
- KOLC** The output pressure of a diesel engine lubricating oil pump is regulated by:
- A** A relief valve.
- 
- KOLE** For a person whose hours are not divided into watches, the regular working hours on board a NIS-ship shall be between:
- A** 0600 - 1700 hrs
- 
- KONU** Which item among those below is included in the normal equipment of every lifeboat ?
- A** an operational compass provided with a binnacle
- 
- KOQG** Does the seafarer have a right to leave service on board for spacial reasons?
- A** Yes, if the ship, for example, is not in a seaworthy condition for the voyage and the master fails to take steps to remedy the defects
- 
- KOQG** Does the seafarer have a right to leave service on board for special reasons?
- A** Yes, if the ship, for example, is not in a seaworthy condition for the voyage and the master fails to take steps to remedy the defects
- 
- KOWW** What will you bring in a lifeboat if the ship is abandoned?
- A** Warm clothes, blankets and lifejackets
- 
- KPCA** Which one of the listed tasks do not necessarily have to be included in onboard training and instruction of crew members? (SOLAS III/18.4 - 18.5)
- A** Onboard training and instruction shall be given in addition to regular abandon ship drills
- 
- KPCW** What type of lubricating oils are generally used in auxiliary engines?
- A** Detergent.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KPEP

What is the meaning of this symbol:

- A muster station

KPFD

Spray painting has been carried out in the engine room while the engine was running, and the turbocharger intake filter was not protected. Which one of the options given is most likely to result from this?

- A Exhaust gas temperatures are higher than normal

KPFD

Spray painting has been carried out in the engine room while the engine was running, and the turbocharger was not protected. This could be the cause of one of the following:

- A Exhaust gas temperatures are higher than normal

KPFD

Spray painting has been carried out in the engine room while the engine was running, and the turbocharger was not protected. Which one of the options given is most likely to result from this?

- A Exhaust gas temperatures are higher than normal

KPGF

When a changeover from HFO to diesel oil is going to take place, we want this to be carried out as follows:

- A slow to get slow cooling.

KQAX

What is the situation of this vessel?

- A Vessel aground

KQBB

What is the objective of the international merchant fleet?

- A To meet the requirements of goods to be transported

KQBV

What daylight identification signal letter (from international code) is the CSS (Co-ordination Surface Search) vessel showing?

- A FR

KQBY

Why are we blowing the engine before start (slow turning on air) ?

- A To be sure that we do not have water collected in the cylinders.

KQCA

\*Which of the following actions will be the most effective means for preventing fire in a cabin?

- A Provide clear warning that persons must not smoke in bed

KQCR

Give the meaning of the following symbol

- A Survival craft portable radio



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KQDQ

The prescribed periodic tests of the radio set must be entered in:

- A** radio log or ship's log

KQEI

Your vessel is involved in a collision with another vessel. What should you as Master tell the Master on the other vessel?

- A** Name and Port of registry of your vessel.

KQEI

Your vessel is involved in a collision with another vessel. What should you as Master tell the Master on the other vessel?

- A** - Name; Port of registry; Port of destination of your vessel.

KQIN

All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.8 - 10.1.10)

- A** The deck cargo shall be stowed so that navigation and manoeuvring is not hampered.

KQNQ

During discharging of crude oil the inert gas system fails totally. Should you:

- A** Stop all cargo operations and close the deck IG line isolating valve

KQSM

Which routine procedures should be carried out before cold work commences?

- A** Carry out procedures to instructions for cold work including filling in forms and having them signed.

KQUB

An important quantity which is useful in circuit analysis is known as conductance G (Siemens). Which of the formulas A to D expresses the conductance for this circuit?

- A**  $G = I / R$

KQWV

Which electronic component does this graphical symbol represent:

- A** Resistance, 3300 ohms

KRBW

What is the key to executing a voyage in a safe and efficient way?

- A** - An effective detailed passage plan fully understood and followed by a competent bridge team.

KRBW

What is the key to executing a voyage in a safe and efficient way?

- A** People, officers and crew

KRDL

Cleaning products should be stored where?

- A** In a room especially meant for cleaning products.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KRDM

All fuel oil tanks are vented through a

- A** Gooseneck vent on main deck

KRDN

Inter-ship traffic at sea should preferably take place on:

- A** VHF channel 06 or 08

KRFV

What kind of warning signs should be placed on manholes into void spaces?

- A** Warning signs that indicate lack of oxygen inside

KRKE

What should be taken into account regarding gas/oxygen before entering parts of the inert gas plant?

- A** The atmosphere should be gas free and contain at least 21% oxygen.

KRMO

Under STCW 95, for how long is a certificate of competency valid?

- A** 5 years

KRVT

Which of the following is a Accounting Authority Identification Code?

- A** FR01

KSGK

Which of the following two digits codes is used to obtain medical advice ?

- A** 32

KSOC

The manometer shown on the picture has an accuracy class 1.0. What is the measuring accuracy if the pointer indicates 6.0 bar?

- A** +/- 0.06 bar

KSPR

What is the meaning of this signal performed by an aircraft to survivors on the surface? (Procedures performed by an aircraft as illustrated below)

- A** The aircraft wishes to inform or instruct survivors

KSTC

What is the purpose of a separator?

- A** To remove solids, water and sludge.

KSWJ

What is the main characteristic of the weak link in a float-free arrangement for inflatable liferafts?

- A** be of sufficient strength to permit to pull the painter from the container and the inflation of the liferaft



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KSXF

The word CHANNEL is spelled conform the international phonetic alphabet:

- A** Charlie, Hotel, Alfa, November, November, Echo, Lima

KSXK

An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do ?

- A** go to your muster station

KTIH

What is SITREP an abbreviation for?

- A** Situation Report.

KTIK

A lubricating oil having a high viscosity index number is most effectively used:

- A** Over a wide range of temperature variations.

KTIK

A lubricating oil having a high viscosity index number is most effectively used:

- A** When the machinery operates over a wide temperature range.

KTIK

A lubricating oil having a high viscosity index number would normally be used in which of the following situations?

- A** Over a wide range of temperature variations.

KTIK

A lubricating oil having a high viscosity index number would normally be used in which of the following situations?

- A** When the machinery operates over a wide temperature range.

KTJF

If messages are received which aren't intended for own ship:

- A** they must not be used for any purpose

KTLP

You are performing a closed loading and the high velocity valves starts ratteling, what will you do ?

- A** Monitor the tank pressure closely and if necessary have the watchman to give the valve a little help to let the pressure out.

KTND

\*What is the minimum capacity required of the emergency fire pump ?

- A** not less than 40% of total capacity of main pumps, but in any case not less than 25 m<sup>3</sup>/h

KTNG

What is the first function of GMDSS?

- A** Transmission of ship to shore distress alerts



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KT SB

Which statement is true?

- A** Normal temperature of the lub oil after the cooler is approx. 45 C.

KTXA

If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. When performing ECC, where do you place your hand on the casualty's body?

- A** Place the heel of one hand, two finger breadths above the bottom of breastbone. Cover

KTXA

If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. When performing ECC, where do you place your hand on the casualty's body?

- A** Place the heel of one hand, two finger breadths above the bottom of breastbone. Cover the hand with the heel of the other hand.

KUCD

In an extreme case, in addition to having your winch brakes as tight as can be, you can increase the brake holding capacity of the winch drum by putting it in gear and setting the power to the heave position. However this may cause:

- A** All the listed alternatives

KUGH

In a distress situation, how many times or for how long should the emergency alarm signal be sounded?

- A** Until all crew members and passengers have reported to their respective muster stations

KUGI

During a ballast voyage, the fuel consumption is noticeable higher than normal and all pressures and temperatures are normal, may the reason to this be:

- A** Fouling of the hull

KULO

Which International Convention introduced the GMDSS ?

- A** SOLAS

KUPP

With an Inmarsat-C installation there is the addressing-option "special". Via this option:

- A** give one of Inmarsat's "special access codes"

KVCA

How often shall each member of the crew participate in an "abandon ship"-drill?

- A** Once every month

KVCC

When a vessel arrives at a port to pick up a pilot and enter harbour, there should be someone required to stand by the anchor forward. How should the anchor be prepared and ready?

- A** Posted on the notice board on board.

KVES

A MF/HF-DSC multi-frequency call attempt may:

- A** be repeated after 3 and a half to 4 and a half minutes



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- KVPM** What would be the likely cause if the shaft of a centrifugal pump shows excessive wear in way of the stuffing box?
- A** Excessive heating caused by over tightening of the gland packing.
- 
- KVQD** When is it necessary to run two pumps or more in parallel?
- A** When the capacity requirement is higher than the performance of one centrifugal pump.
- 
- KVRB** Subject to allowance by the Port State Authority, a tanker with a defective oil discharge monitoring and control system (ODME) may continue to trade for a limited period before a repair is effected. What period is allowed and what conditions apply?
- A** A dry certificate has to be issued.
- 
- KVRE** In a refrigeration system, the condenser cooling water regulating valve is directly controlled by the:
- A** Compressor discharge pressure
- 
- KVRG** What is the recommended range for the pH-value for the water in a diesel engine cooling system engine cooling water be maintained?
- A** Between 7 and 10.
- 
- KVRG** What is the recommended range for the pH-value for the water in a diesel engine cooling system engine cooling water be maintained?
- A** Between 7 and 9.
- 
- KVUM** What is the main purpose of VTS?
- A** Increase safety for all ships in the area
- 
- KVUM** What is the main purpose of VTS?
- A** - Increase the safety of all ships and the protection of the environm\* in the vicinity.
- 
- KVUR** Radio frequency signals can carry information from one place to another if it is modulated. There are several ways to modulate a carrier. Which modulating method is illustrated here?
- A** Amplitude modulation (AM)
- 
- KVUR** Radio frequency signals can carry information from one place to another if they are modulated. There are several ways to modulate a carrier. Which modulating method is illustrated here?
- A** Amplitude modulation (AM)
- 
- KVVK** Your vessel is moving in Panama Canal waters. When must a regular engineer be on watch in the engine room?
- A** - All of these answers



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- KVVK** Your vessel is moving in Panama Canal waters. When must a regular engineer be on watch in the engine room?
- A** At all times
- 
- KVVL** Wheatstone resistance bridge is often used for measuring resistances in for instance Pt 100 temperature sensors or strain gauges. This figure is such a bridge. What is the requirement for balance of such a bridge. i.e. the current through the meter  $i(m) = 0$ .
- A**  $R_1 / R_2 = R_3 / R_4$
- 
- KVVL** Wheatstone resistance bridge is often used for measuring resistances in for instance Pt 100 temperature sensors or strain gauges. This figure shows such a bridge. Under what conditions will the bridge be balanced? i.e. the current through the meter  $i(m) = 0$ .
- A**  $R_1 / R_2 = R_3 / R_4$
- 
- KVXA** When washing dishes, what is considered as ideal water temperature when rinsing?
- A** +75 C to +80 C
- 
- KVXC** In case each hydrant is not fitted with hose and nozzles, what is the requirement? (SOLAS II-2/4.6.1)
- A** Complete interchangeability of hose couplings and nozzles
- 
- KV XU** What is the fog signal for a vessel of more than 100 meters in length when at anchor?
- A** A rapid ringing of the bell forward followed by the gong aft for about 5 seconds at intervals of not more than 1 minute
- 
- KVYO** The abbreviation "COW" applies to an operational phase of oil tanker operations. What does "COW" stand for?
- A** Crude oil washing.
- 
- KWCB** Apart from steering the helmsman should also:
- A** Regularly check the gyro against the magnetic compass
- 
- KWPJ** \*When should a crew member joining a ship for the first time be given some training and instructions in the use of the ships fire-fighting appliances ?
- A** As soon as possible but not later than 2 weeks after he joins the ship
- 
- KWPM** Is it necessary to cool the water samples from the cooling system, before testing ?
- A** Yes, must be cooled to 25° C.
- 
- KXLB** Most minor oilspills are caused by:
- A** Human error



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

KYBY	*What is the working principle of the detectors of a common fixed sprinkler fire-extinguishing system?
A	
KYGT	Which of the 4 alternatives shows the symbol for a PNP transistor?
A	Figure 2.
KYTH	How shall accidents and health hazards be prevented?
A	By all the other mentioned alternatives.
KYUC	A rating has approved emergency preparedness training, a certificate for watchkeeping in the deck department and 3 years of service time on deck and necessary knowledge of English. What post is a seafarer, with these required qualifications, qualified for on a Norwegian cargo vessel?
A	As an able seaman
KYVX	The fuel oil separator (ALCAP) bowl discharge is not working properly
A	Opening water function missing.
LAAH	Code signals concerning requests and general information on medical matters normally consist of:
A	Letter M plus two other letters.
LAOL	Select from the options given the statement that best describes the main duties of an engine room rating who is part of an engine room watch?
A	To assist in the efficient and safe watchkeeping.
LARA	In the figure, which letter indicates the "BREADTH" of the vessel?
A	Breadth is given by B on the figure
LASX	Your ship is loading at a Single Point Mooring. You are the rating on duty. Which of the following areas of the ship will you monitor continuously throughout your watch?
A	Forcastle head, manifolds, maindeck?
LASX	Your ship is loading at a Single Point Mooring. You are the rating on duty. Which of the following areas will you monitor continuously throughout your watch?
A	Forcastle head, manifolds, maindeck?
LAYN	You wish to carry out a test transmission on your radio equipment. What precautions should be taken if any?
A	All of the items in the other alternatives should be done.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- LAYU** Among working conditions listed below which one is required for every propulsion engine of lifeboats?
- A** Sufficient fuel to run at 6 knots for a period of at least 24 hours
- 
- LBGG** The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to
- A** The use of the ship's line throwing apparatus.
- 
- LBGX** The recommended connection between antenna and VHF is:
- A** coax cable
- 
- LBSN** What will You do if the PH-value in the boiler water is under 7?
- A** Increase the dosage of chemicals, and take new test of the water.
- 
- LBVB** A seamans right to go ashore on a day when shops and offices are open is:
- A** At least once a month if circumstances permit it
- 
- LBVY** On a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?
- A** The smallest diameter piston is the stage two piston.
- 
- LBWB** What is meant by the term feel over sequence as applied to diesel engine operation following replacement of a crankshaft bearing?
- A** Allowance must be made for a running-in period with reduced speed and careful temperature monitoring.
- 
- LBWB** What is meant by the term feel over sequence as applied to diesel engine operation following replacement of a crankshaft bearing?
- A** Stopping the engine to check the bearing temperature after a short period of operation
- 
- LBYM** In case of an urgent request for radio medical advice by VHF one should use:
- A** urgency signal
- 
- LCFH** What would be a typical separating temperature range for purifying mineral oil based lubricating oil in a centrifuge?
- A** 65 -85 C.
- 
- LCFH** What would be a typical separating temperature range for purifying mineral oil based lubricating oil in a centrifuge?
- A** 85 - 90 Centigrades.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LCGW

\*On a cargo ship, what is the requirement for the ventilation ducts more than 2 metres long ?

- A** They must be fabricated of non-combustible material

LCMO

On a ship installation it is preferable on vertical pumps to have shaft sealing at the pump upper only. For what reason?

- A** All of the mentioned alternatives.

LCPA

After how many hours would you consider changing the turbocharger bearings, even though all appears to be normal?

- A** 12.000 hours

LCQU

Anyone who makes or permits a false entry to be made in the log book, shall be liable to fines or imprisonment for a term not exceeding 1 year according to:

- A** The General Civil Penalties Code § 315 .

LCQU

Anyone who makes or permits a false entry to be made in the logbook, shall be punished by imprisonment of up to 2 years according to:

- A** The General Civil Penalties Code § 315 .

LCQV

\*Give the meaning of the following symbol

- A** Start air supply

LCRT

After water-washing the turbocharger exhaust side it starts to vibrate even though it was operating normally prior to the washing procedure. What is the most likely cause of this problem?

- A** The rotor blades are damaged or the blades are not properly cleaned

LCVH

The use of combustible material is restricted in the accommodation spaces in order to:

- A** Contain and suppress fire and explosion in the compartment of origin

LDEA

The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to

- A** The method of release from launching appliances.

LDGV

In the fire fighting of fires of a type C with dry chemical powder extinguishers, the application is performed

- A** in a continuous way so that the powder spray is in the same direction as the one of the flame

LDHS

This resistor has the value of 68 k ohm. Which color code will you put on the different color-rings:

- A** a. blue b. gray c. orange



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- LDHS** This resistor has the value of 68 k ohm. Which color code will you put on the different color-rings:
- A** a. blue b. grey c. orange
- 
- LDHS** This resistor has the value of 68 k ohm. Which colour code should be marked on the rings (assume ring d is the tolerance ring)?
- A** a. blue b. gray c. orange
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- LDHS** This resistor has the value of 68 k ohm. Which colour code will you see on the different colour-rings (assume ring d is the tolerance ring)?
- A** a. blue b. grey c. orange
- 
- LDIQ** A centrifugal pump is to be reassembled following overhaul and it is discovered that there are no spare gaskets for the pump housing. From the options given select the best alternative material to make a gasket from.
- A** Thick paper (chart paper).
- 
- LDIQ** A centrifugal pump is to be reassembled following overhaul and it is discovered that there are no spare gaskets for the pump housing. From the options given select the best alternative material to make a gasket from.
- A** Thick paper (old charts).
- 
- LDKV** What type of vessel is this and from what direction are you seeing it?
- A** A vessel engaged in fishing other than trawling, making way, with gear extending more than 150m from the vessel
- 
- LDLP** What is the requirement before discharging/loading when the washing system is fitted with steam heater for water washing?
- A** Double shut-off valves or by clearly identifiable blanks.
- 
- LDLS** What is the possible position of a ship in distress called?
- A** Zero-Point
- 
- LDLY** Which of the following contains gluten?
- A** Potato flour



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LDOK

What does the Chief Mate want the OS to do?

- A** He wants the OS to show him where the switch that changes between automatic, manual, and emergency steering is

LDPC

Which item among those below is included in the normal equipment of every liferaft ?

- A** one copy of the prescribed life-saving signals

LDPW

Which of the following fittings shall be provided to all lifeboats:

- A** a means for collecting rain water

LEDM

Before commencing loading, the cargo tanks are surveyed. What do you call the amount of liquid found in the cargo tanks?

- A** OBQ (on board quantity).

LEKY

What is the meaning of this symbol ?

- A** Radar transponder

LEMO

The DSC-controller display the following: DOO: 244562000 CH16 ; S distress sinking After receiving this DSC message the following is done immediately:

- A** listen out on VHF channel 16

LEQT

Do we need insulation on cargo tanks on semi-refrigerated gas carriers?

- A** Yes, to avoid cold cargo to come in contact with the ship construction

LETE

Some cargoes carried on liquefied gas carriers are toxic and are given a Threshold Limit Value (TLV) as a time weighted average (TWA). What does the TLV-TWA usually indicate?

- A** TLV is threshold limit value and the unit is parts pr million ppm

LFAT

For two generators running in parallel, their share of additional load (kW) will be determined by the:

- A** Governor droop settings on each prime mover

LFAV

\*Which of the following instructions will generally be given by a port authority to allow welding or hot work in a tank having contained flammable liquids ?

- A** During work in tanks, the gas concentration shall be checked every second hour

LFDG

You are at the manifold with the cargo surveyor, drawing samples at the start-up of cargo. A sample of 2-Ethyl Hexanol is off colour. The surveyor instructs you to open the manifold valve and start loading. What will you do?

- A** Keep the manifold closed and not let any cargo reach the cargo tanks, then call Chief officer/Captain.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LFTT

What is the definition of a "near miss"

- A** When an accident nearly occurs in connection with the operation of a ship

LFXF

A 450 volt 3 phase brushless alternator will have the following combination of items mounted on the rotor:

- A** 3 phase excitation winding/rectifier bank/main field winding

LFYY

In a fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar / 4-20mA for level measurement. The transmitter is for different reasons installed 30 centimeters from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is full?

- A** Formula 4

LGGI

Who may through delegation/agreement be given authority to survey a NIS cargo vessel of 500 gross tons and above (offshore units excepted)?

- A** A ship's classification society recognized by the Norwegian Maritime Directorate.

LGHG

The carrier frequency is also given as:

- A** assigned frequency

LGSE

How can you minimize the squat effect?

- A** Decrease the speed as much as practicable

LGWL

When a vessel is to experience a long tow across an ocean, what would be the best system of connecting the tow?

- A** Wire connected to chain through center lead or anchor chain

LGWL

When a vessel is to experience a long tow across an ocean, what would be the best system of connecting the tow?

- A** - Wire from a deep sea tug connected to the ship's anchor chain?^

LHEQ

How many rocket parachute flares are carried in each liferaft?

- A** 4

LHFO

Which rights does a seafarer who is unfit for work normally have?

- A** Care, wages, free passage home

LHIW

The Master is responsible that all crew participate in monthly emergency drills. If 25% of the crew -or more- has not participated in such drill during the last month, what is the time limit to conduct such a drill after the vessel has left a port?

- A** Within 24 hrs.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- LHND                      What kind of fixed extinguishing plant is commonly installed in an oil tankers pump room?
- A**   CO2 plant.
- 
- LHND                      What kind of fixed extinguishing plant is commonly installed in an oil tankers pump room?
- A**   CO2 plant.
- 
- LHSA                      What is the meaning of the term purification?
- A**   Separation of two insoluble liquids with different densities, and at the same time removal of solids.
- 
- LICU                      The lowest temperature at which a liquid will give off sufficient vapors to form a flammable mixture with air is known as the:
- A**   Flash point
- 
- LICX                      Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?
- A**   Keep the floors and decks free from fat and grease.
- 
- LIDV                      Where is "ASTERN", in the figure?
- A**   Astern is defined as D on the figure
- 
- LIFP                      Give the meaning of the following symbol
- A**   Flame detector
- 
- LIGK                      How often are abandon ship drill and fire drill required to be held on passenger ships, according to SOLAS?
- A**   Weekly
- 
- LIMC                      Why is it impossible to have a lifeboat drill at present?
- A**   Because the ship is leaving after sunset the following day
- 
- LINN                      Which detergent is recommended when washing dishes?
- A**   Neutral cleaner.
- 
- LIPD                      How many separate means of escape are provided from each fire zone above the bulkhead deck?
- A**   At least two



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LIQF

Define the class of emission F1B :

- A** Radiotelex and DSC - Frequency shift keying of carrier with error correction

LIQG

The ship is sailing in shallow water with reduced Under Keel Clearance. If the ship is steaming with the engines at full RPM, what would be the speed in comparison to the speed achieved in deep water?

- A** Slower

LIRE

Define the class of emission F3E :

- A** Radiotelephony - Frequency modulation

LISN

One of the provisions mentioned is NOT as important for safety of the seafarer onboard a ship as the other ones. Which one is less important?

- A** Seaman's Act Section 5.

LISN

One of the provisions mentioned is NOT as important for safety of the seafarer onboard a ship as the other ones. Which one is less important?

- A** Seaman's Act Section 5.

LISS

The continuous listening watch on VHF-channel 16 on board of a ship:

- A** must also be kept after the implementation of GMDSS

LISU

The MESAR is a book of:

- A** directions for search operations

LIVF

The emergency-battery of a GMDSS-portophone:

- A** cannot be charged

LIYJ

If conditions permit, which is the best way to board a liferaft that is floating close to the ship?

- A** Use a rope ladder close to the raft to climb down and board

LIYJ

If conditions permit, which is the best way to board a liferaft which is floating close to the ship?

- A** Use a rope ladder close to the raft to climb down and board

LJBE

What is a ZENER BARRIER?

- A** A zener barrier is a unit made to obtain intrinsically safety in installations for instrumentation in hazardous areas.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LJBE

What is a ZENER BARRIER?

- A** A zener barrier is a unit made to obtain intrinsic safety in installations for instrumentation in hazardous areas.

LJEQ

ISGOTT draws attention to the risk of electrostatic potential in a mist produced by using oil and water mixture in Crude Oil Washing operations. How does the Guide recommend this is avoided?

- A** 125 %

LJIO

Thermistor will typically have

- A** Relatively non linear characteristic

LJKN

Which item among those below is included in the normal equipment of every lifeboat ?

- A** one waterproof electric torch suitable for Morse signalling

LJLY

How is shallow water effect felt in a vessel?

- A** The vessel becomes sluggish in responding to the rudder

LJWW

The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

- A** Do not use loose garments, belts, ties or scarfs near winches and moving machinery.

LKCQ

What comprises an INMARSAT-B subscriber number?

- A** Nine digits, beginning with a three (3).

LKDM

Which of the following requirements to fixed foam systems for cargo deck area on tankers do not correspond to present regulations? (SOLAS II-2/61)

- A** Sufficient foam concentrate shall be supplied to ensure at least one hour of foam generation

LKDO

What will you do if the liquid start raising in the Surge Drum? (Direct cooling / refrigeration system).

- A** Immediately reduce on the suction valve, and watch the gauge.

LKEJ

On area A2 the function " Transmission and reception of signals for locating " is mainly based on:

- A** the use of SART transponders

LKHU

During the transmission every DSC-symbol is:

- A** always sent twice





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LKHX

You have abandoned ship in a liferaft. Which of the following actions should you take?

- A** Organize a lookout system and join up with other survival craft if possible. You should also stream the sea anchor

LKJO

You wish to send a message via an Inmarsat-C installation to an Inmarsat-A telex installation. The message is composed in 'ASCII'. The message can be sent:

- A** as a fax

LKVE

Give the meaning of the following symbol

- A** Area protected by sprinkler

LKYH

In what kind of measuring equipment can we find a Bourdon-tube?

- A** In a pressure transmitter.

LLIP

An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do?

- A** Go to your lifeboat station

LLTF

As with heat burns the damage of frostbite /hypothermia may be either superficial or deep, and the affected tissues may be destroyed. What kind of first aid should be given a person with frostbite ?

- A** Hand or body heat the affected parts skin-to-skin (e.g. frozen hand in persons opposite armpit...)

LLUA

What does this crane signal indicate?

- A** Move the load in the direction of the signal man's hand.

LLUC

Automatically connected telephone calls via INMARSAT A are charged

- A** on the basis of a six second minimum charge with six second incremental steps

LLUC

Automatically connected telephone calls via INMARSAT A are charged:

- A** on the basis of a six second minimum charge with six second incremental steps

LLVU

What could be the most probable cause to overheating of bearings?

- A** Lubricating oil temperature is too high.

LLVW

When carrying i.e. isocyanates which reacts with water and the only heating medium for the heating coils is water, how would you then plan the stowage in order to keep the cargo within requested temperature ?

- A** Stow the product adjacent to a cargo which have a heating around the requested temperature for the isocyanate.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LLXP	The maximum current that a 15 Volt, 3 Watt Zenerdiode can handle without damage is
A	0.2 A
LMCM	*There are 3 lifeboats on each side of a passenger ferry engaged on short international voyage and having a factor of subdivision equal to 0,4. All these lifeboats are identical. What should be the total number of persons that can be accommodated in the 3 lifeboats on the starboard side altogether ? (*) N
A	at least 15 % of N (*)
LMPX	What precaution is to be taken when the Engineer on Duty is entering an UMS-mode operated engine room due to an alarm or due to a scheduled routine check?
A	Switch the UMS selector switch to manual mode and engage the "dead man alarm"
LMQS	You have an important navigational or meteorological message to transmit. What call should proceed this message when made on the radio telephone?
A	Securite Securite (3 times)
LMQS	You have an important navigational or meteorological warning to transmit. What call should proceed this message when made on the radio telephone?
A	Securite Securite (3 times)
LMSK	Where is the best position of the oil/water interface in these figures?
A	Position A.
LMTI	Which cleaning agents are suitable for use in machinery space when considering the effect on the function of the oily water separator?
A	A non-emulsifying agent with self splitting emulsifiers.
LMTI	Which cleaning agents are suitable for use in machinery space when considering the effect on the function of the oily water separator?
A	A non-emulsifying agent with self splitting emulsifiers.
LMXF	In radio-telex distress traffic preference is given to FEC because:
A	everybody can read along
LNAV	On passenger ferry the passengers are not normally allowed to be on the car-deck during sailing. What is the reason for this rule?
A	In case of an emergency situation, the car deck can be difficult to find the way around, and cars can shift position caused by ships movement.
LNDE	What personnel on board a British ship must be in possession of a lifeboat or survival craft certificate
A	Everyone who may be in charge of life-saving equipment



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- LNEE**                      A seaman, who forms part of the minimum manning level, has not returned from shore leave, can the vessel sail without him, or someone in that rank?
- A**    No, the vessel must wait his return or his replacement
- 
- LNGQ**                      The effect of the reflection of radio waves in the ionosphere on the transmission range also depends on:
- A**    the height of the layers of ionisation
- 
- LNKR**                      A drip tray containing oil is on fire. The only fire fighting equipment available is a water hose with single jet/spray nozzle. How, if at all, should you attempt to put out this fire using water?
- A**    The water can be applied in a fine spray starting from the front in a sweeping motion
- 
- LNKX**                      What does the Captain mean?
- A**    Set the engine to dead slow ahead, and change the course 10 degrees to port
- 
- LNOD**                      When using a PID controller, which of the following parameter settings will not result in oscillation?
- A**    Too long I-time
- 
- LOFV**                      To prevent overload of the MF/HF transmitter;
- A**    clean the dust filter of the fan regularly
- 
- LOGQ**                      Which item among those below is included in the normal equipment of every rescue boat ?
- A**    two buoyant rescue quoits
- 
- LOIB**                      Where is the normal position of the "Pivot Point" of the vessel when going ahead?
- A**    -1/3 of the vessel's length from the bow.
- 
- LOIY**                      What is the main purpose of a VHF-installation onboard:
- A**    to enhance the safety of lives at sea
- 
- LOKP**                      What is the most dangerous overtaking situation shown on the sketches?
- A**    A large vessel overtaking a small vessel with little difference in speed between the two vessels
- 
- LOLK**                      When using cleaning equipment, what is important before starting?
- A**    Knowing exactly how the equipments are working.
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- LOSI** Which parameters are required in order to evaluate the condition of a heat exchanger during operation?
- A** In and outlet temperatures, and flow rates for both media
- 
- LOXC** What is an unsaturated hydrocarbon?
- A** Unsaturated hydrocarbons are colourless liquids with a sweetish odour and they are chemically reactive
- 
- LPFX** On the figure there are four (4) possible definitions of the term "WINDLASS" given. Which one is the correct one?
- A** Windlass is given by B on the figure
- 
- LPHX** The compulsory testing of a prescribed EPIRB is to be done:
- A** once a month
- 
- LPJV** Is it the duty of the master to meet personally at a Norwegian Consulate if he is called for by the head of the Consulate?
- A** Yes
- 
- LPOU** What duties are imposed on an employer in respect to the Health & Safety at Work Regs
- A** The employer must write an up-to-date policy statement and bring this to the notice of all on board
- 
- LPXX** Fuel oil from a leaking fuel pipe has been collected in a drip tray under the boiler furnace. The oil is suddenly ignited by a backflash from the boiler burner. The boiler room is manned and the person present has the choice of various extinguishers. The fire is purely a surface fire. What would be the preferable
- A** Powder
- 
- LPYS** Which class of emission is used for MF radio telephony transmissions ?
- A** J3E
- 
- LQBJ** Which item among those below is included in the normal equipment of every lifeboat ?
- A** a sea-anchor fitted with a shock-resistant hawser
- 
- LQFL** The restriction of overtime work is that the person shall not be required, under normal circumstances, to work more than:
- A** 14 hours per day
- 
- LQGH** Give the meaning of the following symbol:
- A** 0



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LQGJ	All fuel oil tanks are vented through a
A	gooseneck vent on main deck
LQLH	*What is the expansion ratio of the foam produced by the fixed low-expansion foam fire-extinguishing system of an engine room?
A	Less than 12 to 1
LQRD	Which of these steps (in shut-down procedure) shall be executed last?
A	Shut down of inert gas blower
LQSV	What does this crane signal indicate?
A	Raise the boom, lower the load.
LQUE	Which of the following foods will increase the cholesterol levels in the blood if eaten in excessive quantities?
A	Pork
LQWD	Which alternative is correct for measuring current over the load L?
A	Figure 3.
LQWD	Which alternative is correct for measuring current through the load L?
A	Figure 3.
LQXX	You have a brine-system onboard with steam heating for defrosting. Which liquid will You circulate first through the heater to avoid damage on the heater?
A	Open for the steam first to avoid freezing of condensate inside the heater.
LRBA	Which of the following detailed explanations should be mentioned in the Training Manual ?
A	The best use of all survival craft facilities in order to survive
LRDS	IMO publishes a number of Codes relating to the carriage of bulk cargoes including the IGC Code for liquefied gas carriers. What is the main purpose of the IGC Code?
A	The purpose of the IGC code is to provide an international standard for safe carriage of liquefied gases in bulk
LRIU	You are on a multiple-product chemical tanker with orders to load diethylamine. What is NOT a requirement for transporting this cargo?
A	A person taking cargo samples must wear protective clothing.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LRNW

Which class of emission is used for MF radio telephony transmissions ?

**A** J3E

LR00

Unfortunately an insect has become lodged in the ear. How to remove the insect?

**A** Gently flood the casualty's ear with tepid water so that the insect will float out.

LR0Q

Why is it important to check the ullages of the cargo tanks and sound double-bottom tanks at regular and frequent intervals during an oil tankers loaded passage?

**A** Check if any internal or hull leakages

LRSW

In a fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar / 4-20mA for level measurement. The transmitter is for different reasons installed 30 centimeters from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is full?

**A** 18,8 mA.

LRSY

Which feedwater condition would you prefer?

**A** pH value 7.5

LRUI

Which item among those below is included in the normal equipment of every liferaft ?

**A** a food ration for each person

LRWC

When planning a voyage crossing large oceans, which of the following answers would most suitably cover the most critical aspects to be considered when deciding the courses to steer?

**A** Indonesian waters

LRWC

When planning a voyage crossing large oceans, which of the following answers would most suitably cover the most critical aspects to be considered when deciding the courses to steer?

**A** - The anticipated weather and the need for weather routing. The distances gained by sailing by great circle. The ship's draught and the leadline limits

LRXW

When ordering fresh pears, which unit of measurement would you use?

**A** Kg

LSCP

How many total frequencies are available for DSC distress alerting?

**A** Seven (7).

LSDR

If a distress signal is received, what would you do?

**A** All of the alternatives together.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LSFC

What do you understand by the term Hoisting?

**A** Making the grab bucket/hook move up and down.

LSJL

What does the abbreviation "OBO" stand for?

**A** Ore Bulk Oil.

LSRS

What is the meaning of the abbreviation "RQ" at the end of a DSC sequence?

**A** Acknowledgement request

LSSR

What is a fire wire?

**A** Wire for pulling burning ships off the pier

LSWV

When you are cleaning the fuel-oil burner tips you should use

**A** Brass knife

LTCP

What is the correct range for the pH-value for the water in an oil fired steam boiler?

**A** 8,3 - 9.

LTGA

What type of buoy is this?

**A** Isolated danger

LTIN

What will happen with the interface in the bowl, if the flow is too high?

**A** Broken water seal.

LTNI

An area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available is called:

**A** A1

LTNL

Which of the following are SARTSAT COSPAS EPIRB frequencies :

**A** 406,025 et 121,5 MHz

LTQR

the minimum number of lifebuoys required on a cargo ship depends on:

**A** the length of the ship



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LTXR

During a voyage a young person celebrates his 18th birthday, would this require alternative arrangements in the crew agreement?

- A** Yes, at the first port after his birthday, he would sign off from the ALC1c and re-sign on in the ALC 1a section

LUAE

Why did he study the contract in detail before signing it?

- A** He studied the contract in detail before signing it because he wanted to know his duties

LUAE

Why did he study the contract in detail before signing it?

- A** No, despite the fact that he promised to carry out several duties.

LUAT

In a cascade control system, what is the correct mode of the slave controller during normal operation

- A** The slave controller shall be in remote mode

LUDJ

\*Give the meaning of the following symbol

- A** Start engine

LUDO

What is the fundamental purpose of a coast radio station?

- A** To provide continuous digital selective calling coverage.

LUFB

Your ship receives HFO with high density from the last bunkering. What will You do to obtain the best purifying result?

- A** According to the nomograms You select a gravity disc with larger hole diameter.

LUHR

Which Convention first placed on the shipowner an obligation to exercise due diligence to make a ship seaworthy, requiring him "before and at the beginning of a voyage...to....make the ship seaworthy...and...make the holds...and all other parts of the vessel in which goods are carried, fit and

- A** - The Hague-Visby Rules.

LUMK

COTP can request (OPA-90)

- A** Unannounced drills at any time

LUMM

Which of the valve types given in the options is most likely to be used in the cargo loading lines of a liquefied gas carrier?

- A** Ball and butterfly valves are generally utilised on loading lines on gas carriers

LURR

Which of the following is a INMARSAT M Mobile Earth Station Identification Number (IMN)?

- A** 622753420





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LVDJ

What types of vessels shall carry an approved VRP (OPA-90)

**A** Tanker vessels carrying oil

LVEH

The exhaust gas is too dark because of:

**A** Any of the others.

LVFA

\*Which one of the given requirements listed below, regarding survival craft muster and embarkation arrangements, listed below, corresponds to the present SOLAS regulations ?

**A** muster and embarkation stations shall be readily accessible from accommodation and work areas

LVLW

The effectiveness of CO<sub>2</sub> as an extinguishing agent is based on:

**A** Combustion suppression

LVMK

What will you serve seafarers who has been exposed to cold?

**A** Warm nutritious drinks.

LVRO

Which of the following items shall be included in each fire drill?

**A** Checking the operation of watertight doors, fire doors, fire dampers and relevant communication equipment

LVSL

Apart from red, what other colour is frequently used for a CO<sub>2</sub> extinguisher?

**A** Black

LVUY

Which PH - values are recommended when cleaning carpets and furniture textiles?

**A** 3-8.237

LVVO

When is the Officer of the Watch officially relieved of his responsibilities of being in charge of the watch?

**A** Because the Captain expects fog early in the morning

LVVQ

The fixed-pressure water-spraying fire-extinguishing system nozzles must ensure an effective average distribution of water in machinery spaces of

**A** 5 l /m<sup>2</sup>/ min

LVXI

The aim of fire detection is:

**A** all the answers are correct



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LVYA What is the most common type of controller

A PI-controller

LVYC Which of the following requirements to ships stability for normal operation corresponds to present regulations? (NSCL 4/12.2)

A The ship is loaded in such a manner that adequate stability is achieved in all loading condition.

LVYC Which of the following requirements to ships stability for normal operation corresponds to present regulations? (NSCL 4/12.2)

A The ship is loaded in such a manner that adequate stability is achieved in all loading condition.

LWAA What information has to be given to set up a radio telex-connection with a coast-station:

A ARQ followed by the coast-station's ID-number

LWBS \*Give the meaning of the following symbol

A Lower lifeboat to water

LWDJ What does the IGC code primarily deals with?

A The IGC code primarily deals with gas carriers design and equipment

LWKS You are Sen.Off.Deck on a vessel and you have collided with another vessel which is on fire. What would you do?

A - After checking the extent of the damage and welfare of your crew, possible your vessel should standby and offer assistance, until beii relieved of that obligation by the other vessel.

LWKS You are Sen.Off.Deck on a vessel and you have collided with another vessel which is on fire. What would you do?

A Check own vessel for any loss of life, danger of explosion and offer your assistance to the other vessel

LWLR What is the main reson for keeping engine lubricating oil viscosity within recommended limits?

A To ensure the strength of the oil film is sufficient to keep lubricated surfaces apart.

LWND What is the minimum number of independently driven fire pumps that must be provided on cargo ships of 1000 GRT and above?

A 2

LWOA Which electronic component does this graphical symbol illustrate?

A Bipolar transistor



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LWPS

Overcall control of the working of an Inmarsat-A terminal can be realised by:

**A** request of an "automatic telex test"

LWUP

Watch the situation. Which of the two vessels is most to blame?

**A** Vessel "A", merchant vessel

LWXH

A message is sent by the Inmarsat C-set. The land earth station will:

**A** only send a positive delivery notification (PDN) to the sender if the sender requested, so in the send menu

LXHE

Which branch of the MCA are responsible for Search and Rescue

**A** HM Coastguard

LXIT

Which method is best for determining earth failure on a 24 VDC power supply?

**A** A lamp, (0-50 mA) and a mA-meter in series.

LXML

Which of the methods given in the options will give the most accurate test of the accuracy of a bourdon tube type pressure gauge with a range of 0 to 20 bar?

**A** Check the gauge on a deadweight tester

LXNG

\*Which of the following requirements applies to a "C class" bulkhead?

**A** It must be constructed of approved non-combustible materials

LX SX

You are going to enter a tank to clean up some dust. What kind of permits is required to be issued before entering?

**A** Enclosed Space Entry Permit and Cold Work Permit

LXTX

Satellite communication is usually provided by :

**A** sky wave

LYIU

Give the meaning of the following symbol

**A** EPIRB

LYIV

If the water and oil have emulsified, is it possible to remove the water in the separator

**A** No



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

LYKN

What is a "Bollard"?

- A** A remedy to which the mooring lines are made fast.

LYKO

On the figure 4 possible definitions of the term "BREADTH" are given. Which one is the correct one?

- A** Breadth is given by B on the figure

LYMA

Which of the following services is not provided by INMARSAT A

- A** Safetynet

MAAW

The range of a transducer is 0-200 bar. The standard output signal is 4-20 mA. What is the output signal when the process value is 100 bar.

- A** 12 mA

MAFP

The word EIGHT is spelled conform the international phonetic alphabet:

- A** Echo, India, Golf, Hotel, Tango

MAFQ

The word VOLUME is spelled conform the international phonetic alphabet:

- A** Victor, Oscar, Lima, Uniform, Mike, Echo

MAJW

The steam that is discharged from the safety valves goes to the

- A** Atmospheric line

MAML

What is the meaning of this symbol ?

- A** Secure hatches

MAOX

Which one of the listed fire-extinguishing medium is to be preferred to fight a fire in an electric installation (for example the main switchboard)?

- A** Powder.

MAUQ

The lifebuoy making part of quick-release arrangement must have a weight of at least:

- A** 4 kg

MBAT

On area A1 the function " Transmission and reception of ship to ship distress alerts " is mainly based on:

- A** the use of VHF DSC



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**MBER**

Too high exhaust temperature in one cylinder becomes because of:

- A** Scavenge ports dirty.

**MBFP**

What would you do before you start soot blowing

- A** All alternatives

**MBGK**

The purpose of the wear ring for the illustrated pump is to -

- A** Provide a replaceable wear surface for the pump housing/impeller.

**MBJW**

What is the main problem associated with oil in a steam boiler water system?

- A** It adheres to the boiler tubes and reduce the heat transfer. It combines with solids to produce sticky deposits.

**MBMG**

At which of the pressures shown should the high discharge pressure trip operate on a freon compressor?

- A** + 18.5 bar

**MBOQ**

What is the purpose of an observation tank in a boiler feed system?

- A** To check condensate returns for oil.

**MBRG**

\*Which of the following requirements applies to a fixed fire detection system?

- A** All answers are good

**MBRG**

\*Which of the following requirements applies to a fixed fire detection system?

- A** All the answers are correct

**MBTS**

In ships carrying very hot cargoes above 140 degrees Celsius - which might cause local steel buckling - such as molten sulphur and asphalt, it is noticed that while sulphur is carried in independent tanks, the asphalt can be carried in tanks integral with the ships hull. This is because:

- A** The asphalt unlike sulphur is a viscous product and therefore does not transmit its heat easily to the steel bulkheads, allowing the steel to stay cooler than the cargo?

**MBUO**

What is a "passenger" according to SOLAS regulations?

- A** Every person other than the Captain and the members of the crew or other persons employed or engaged onboard the ship in the business of that ship.

**MBVJ**

What is the only reliable way of checking that the CO2 cartridge in a "Dry Powder" extinguisher is full?

- A** Remove the cartridge and weigh it as it has the full and empty weights stamped on it.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**MBWH**

Which of the following fittings shall be provided to all lifeboats:

- A** a device to secure a painter near its bow with an inside release device that can be operated under tension

**MBXC**

On which frequency a ship must maintain a continuous watch when sailing in area A2?

- A** 2187,5 kHz

**MCEM**

What is the period of validity of Tonnage certificate

- A** Indefinite

**MCEP**

While their respective characteristics differ in detail, which of the following main operating features do all positive displacement pumps have in common if they are working under non-cavitating conditions?

- A** All of the mentioned alternatives.

**MCIV**

When is the 2nd Mate supposed to call the Captain?

- A** When anything unusual happens, and 30 minutes before the pilot station

**MCKN**

How many hand held distress flares are carried in each liferaft with SOLAS A pack?

- A** 6

**MCMC**

Which of the following will have the lowest per kilo price?

- A** Mackerel fillet

**MCXS**

You wish to send a message with the Inmarsat-A fax-installation to an Inmarsat-C installation. This is:

- A** not possible

**MCYQ**

Poster or signs shall be provided on or in the vicinity of survival crafts and their launching controls. Which one of the following requirements has to be included according to present SOLAS regulations?

- A** Give relevant instructions and warnings.

**MDDX**

Before RoRo loading operation starts, what shall you as duty officer observe?

- A** Physical checking the ramp/cargo holds/hoistable decks and see that everything are in order and the ship's gear correctly located?

**MDHW**

For how many hours a day during navigation shall the radio officers on a passenger ship carrying more than 250 passengers listen on the radiotelegraph distress frequency using headphones or loudspeakers?

- A** 16 hours



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MDIW

At an inspection of the radio station on board abroad:

- A** the operating certificates of the radio-operators must be shown

MDJK

The vessels cranes are marked: "SWL 29,5 tons x 22 M/R (including lifting beam weight 1,5 tons)". You like to lift onboard a load of steel coils being placed on the berth. Distance from C/L of crane to the steel coils is 22 meters. What will be the maximum weight of the coils (in one lifting) in order to have a "safe"

- A** 28,0 tons

MDLC

Some liquefied gas carriers require a secondary barrier as part of the cargo containment system. What is the main purpose of a secondary barrier on these gas carriers?

- A** To prevent the environment to be polluted if there is a leak on a cargo tank

MDNT

\*Give the meaning of the following symbol

- A** Start water-spray

MDNV

Which of the following INMARSAT services provides communications by telephone, telex, facsimile, and data?

- A** INMARSAT-A.

MDNV

Which of the following INMARSAT services provides communications by telephone, telex, facsimile (f, and data?

- A** INMARSAT-A.

MDQG

Will an individual contract of engagement for service on NIS ships be legally accepted?

- A** Yes, provided it appears, amongst others, the wages and overtime pay and that it is subject to Norwegian laws and courts, but may be brought before a court in the employee's country of residence

MDRU

Which of the following areas may be possible restricted areas? (Review all answers)

- A** All alternatives

MECU

What mooring lines are they going to let go?

- A** They are to let go on the stern lines

MECX

There are several methods for applying floor polish, which is considered the best?

- A** Soft cloth on wide applicator with handle.

MEDS

What has to be done before the central gas extinguishing system is used on a fire in engine rooms, cargo holds or other confined spaces?

- A** Make sure that the compartment has been evacuated



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MEFG

\*Under which circumstances should a sprinkler head of a common fixed sprinkler fire-extinguishing system be activated?

- A** Automatically, when the temperature is within a range from 68°C to 79 °C

MEIV

The signal of an Inmarsat EPIRB:

- A** will immediately be detected within the coverage-area by the satellite's concerned

MEJJ

On area A2 the function " Transmission of ship to shore distress alerts" is mainly based on:

- A** the use of MF DSC

MELX

MF communication is usually provided by :

- A** ground wave

MEMY

If conditions permit, which is the best way to board a liferaft which is floating close to the ship?

- A** Use a rope ladder close to the raft to climb down and board

MEPK

What is the minimum number of bolts required in a 12 inch bolted flange cargo hose coupling?

- A** A bolt in every hole

MEWT

If the temperature decrease, what will happen with the interface in the bowl ?

- A** Broken water seal, oil outside the top disc.

MFBY

Your vessel is going alongside. One tug will assist at the mooring. How do you want to use the tug and at which position?

- A** Make fast on the vessel's shoulder to push and pull

MFBY

Your vessel is going alongside. One tug will assist at the mooring. Which position and how do you want to use the tug?

- A** Make fast on the vessel's shoulder to push and pull

MFDO

A SART must be visible on the ship's radar from a distance of at least:

- A** 5 miles

MFDQ

In making VHF communication or test transmission you must:

- A** identify yourself with your call sign and /or ships name





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MFNP

What is the definition of liquefied gas according to the IGC code?

- A According to the IGC code liquefied gas is chemical with vapour pressure exceeding 2.8 bar absolute at 37,8oC

MFYQ

Modern large slow speed diesel engines operate with very efficient turbochargers. This has resulted in much later opening of the exhaust valve as less energy is needed to drive the turbocharger giving exhaust timing which is almost symmetrical about bottom dead centre. How has this affected the

- A Only the fuel and starting air timing needs to be changed to reverse the engine.

MGAY

What would you do before you start soot blowing

- A all alternatives

MGCN

The position that is determined built in GPS-receiver in an Inmarsat-E has an accuracy of about:

- A 200 meters

MGCS

What kind of permits have to be obtained before starting hot work in tanks?

- A Hot work permit + Permit for entry.

MGPW

\*The lifebuoy not making part of quick-release arrangement must have a weight of at least:

- A 2,5 kg

MGVT

The hydrostatic release of an EPIRB should be changed

- A Every two years

MHHP

The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

- A Do not use dangerous liquid detergents in closed spaces

MHHP

The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

- A Do not use dangerous liquid detergents in closed spaces.

MHJG

In which areas is plastic material accepted for overboard disposal?

- A Not permissible any where.

MHKY

The main purpose of the superheater vent valve on the boiler is to

- A ensure a flow of steam through the superheater when raising steam pressure after shut down



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MHLN	<p>*How often should each lifeboat be lowered into the water and manoeuvred with its operating crew aboard under SOLAS regulations?</p> <p>A Every three months, at least once a year</p>
MHMP	<p>In a heat exchanger where seawater is used to cool fresh water, the seawater pressure should be maintained lower than the freshwater pressure to:</p> <p>A Prevent contamination if leaks are developed</p>
MHMP	<p>In a heat exchanger where seawater is used to cool fresh water, the seawater pressure should be maintained lower than the freshwater pressure to:</p> <p>A Prevent seawater contamination of the central cooling system in the event of seal failure</p>
MHNE	<p>It is important that the brake holding capacity of a self stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake</p> <p>A 100 Tons</p>
MHNE	<p>It is important that the brake holding capacity of a self-stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake</p> <p>A 100 Tons</p>
MHNK	<p>Is it compulsory to have Oil Record Book on a ship of 450 tons gross?</p> <p>A Recirc. full open, fresh air intake closed.</p>
MHNM	<p>During which time may watertight doors in watertight bulkheads in tweendeck cargo spaces be kept open in passenger ships?</p> <p>A In ports only</p>
MHPB	<p>*Welding and flame cutting are among the factors which give the highest risk of fire on board ships. Precaution has to be taken to avoid this risk. Which of the following safety rules may be regarded as the most important?</p> <p>A The welder shall have been instructed in the use of the ship's welding plant</p>
MHRO	<p>A water content greater than 2 % is detected in a lub oil system. What is the best action to do?</p> <p>A Segregate the oil in a separate tank for continuous purifying.</p>
MHRU	<p>Which of the methods given in the options should be used to test a remote reading temperature gauge for the auxiliary boiler exhaust gas?</p> <p>A Check the resistance change in the sensor over a known temperature range against the</p>
MIFX	<p>On what wave band does the search and rescue radar transponder operate?</p> <p>A 9 GHz</p>



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- MIIB** The vessels cranes are marked: "SWL 29,5 tons x 22 M/R (including lifting beam weight 1,5 tons)". You are going to lift onboard a 28 tons load being placed on the berth. What will be the maximum distance from C/L of crane to the load you are going to lift in order to have a "safe" operation?
- A** 22 m.
- 
- MIJD** What is the meaning of this symbol ?
- A** Lifeboat
- 
- MIJF** The battery of a SART:
- A** must be replaced before the expiry date is exceeded
- 
- MIJY** A distress-alert call from an RCC or coast-station, preceding distress alert relay, begins with:
- A** MAYDAY RELAY (3x)
- 
- MILK** Measurement of oil cargoes is often achieved with a "UTI" device. What do the letters "UTI" stand for?
- A** The boundary between oils and water?
- 
- MIOE** The exhaust gas temperatures of all cylinders of a diesel engine are seen to be high. Select, from the options given, the most likely cause of this.
- A** Fuel oil quality
- 
- MIOE** The exhaust gas temperatures of all cylinders of a diesel engine are seen to be high. Select, from the options given, the most likely cause of this.
- A** Poor fuel oil quality.
- 
- MIQL** One of the checks during the annual Class survey of the UMS functions is focusing on cleanliness of the engine room. What is the reason for such a check ?
- A** To reduce the general risk of fire in an unmanned engine room.
- 
- MIQO** Give the meaning of the following symbol:
- A** davit launched liferaft
- 
- MITU** The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. Should he:
- A** Not allow the clothes to be hung anywhere in the unmanned machinery spaces.
- 
- MIWH** What is the correct lifting technique?
- A** Legs bent, back straight, using leg muscles to lift



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**MJDT** Vessels cranes have various safety devices and interlocks to maintain a safe and regulated operation. Several "Bypass" switches are fitted for this purpose and these are locked by keys. During crane operations, what would be the appropriate routines in respect of these "Bypass" switches/keys?

**A** Keep the keys with the Duty Officer/Electrician and call one of them when "Bypassing" is required.

**MJKM** What is full form of VRP (OPA-90)

**A** Vessel Response Plan

**MJKW** What is SELFEC:

**A** a one-sided transmission meant for one vessel

**MJPN** On what mode is a radio-telex traffic list transmitted:

**A** FEC

**MJPN** On what mode is a radio-telex traffic list transmitted?

**A** FEC

**MJPV** The analyses of the smoke produced by a fire, may give an interpretation of that fire. Which are the factors we should take into account?

**A** Opacity, amount and colour

**MJXV** Give the meaning of the following symbol

**A** Fire station

**MKAJ** Which provisions regulate the question of handbooks for medical treatment that shall be carried on board?

**A** Regulations of 11 Dec. 1981 concerning medical supplies etc on board ship

**MKAU** This is the graphical symbol and truth table for a logic gate. Which gate?

**A** NOR

**MKCF** On area A3 the function "Transmission and reception of signals for locating" is mainly based on:

**A** the use of SART transponders

**MKGM** The log-in of an Inmarsat-C installation is important:

**A** to inform the NCS that one is available for messages offered



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- MKMI** What is commonly recognised as the main hazard associated with unprotected entry into an enclosed space on a tanker?
- A** Lack of oxygen?
- 
- MKMI** What is commonly recognised as the main hazard associated with unprotected entry into an enclosed space within the cargo area on an oil tanker?
- A** Lack of oxygen?
- 
- MKNC** What governmental body is responsible for shipping?
- A** Department of Environment, Transport and Regions (DETR)
- 
- MKRE** What is the main difference between a stuffing box gland and a mechanical seal on a centrifugal pump?
- A** If packing fails the pump can be kept running by tightening the glands, but if a mechanical seal fails it must be renewed to stop the leakage
- 
- MKTY** It has been established by experience that the most successful method of double banking two vessels, when no tugs are available, is one of the following methods. Select which answer is considered the most successful method.
- A** - When both vessels are underway, fig. 1
- 
- MKTY** It has been established by experience that the most successful method of double banking two vessels, when no tugs are available, is one of the following methods. Select which answer is considered the most successful method.
- A** With both vessels underway, fig. 1
- 
- MKUM** How would you know how many people a lifeboat is supposed to hold ?
- A** the number of persons should be clearly stated on the outside of the boats bow
- 
- MKXA** Before loading ore cargo, any spaces which previously contained oil, even if not being used for ore (example - wing tanks on an O/O carrier) should be cleaned and gas freed. On the ore loaded voyage these spaces should:
- A** Be checked at regular intervals for gas which might be released perhaps from sludge deposits; and if such gas found, the tank to be re-gas freed?
- 
- MLHS** How is damage to the piston rod stuffing box rings avoided when removing and replacing the piston during overhaul of the piston of a large two stroke diesel engine?
- A** A tapered guide sleeve should be fitted over the threaded end of the piston rod.
- 
- MLJI** The holding down arrangement for a large 2-stroke diesel engine consists of steel chocks and hydraulically tightened holding down bolts. When carrying out routine maintenance of the arrangement which method, from those given in the options, should be adopted to check that it is in good order.
- A** Check the hydraulic release pressure for the holding down bolts.
- 
- MLKK** What documentation must the Master inspect when signing on a new officer?
- A** The Certificate of Competency (or equivalent), the seaman's discharge book, the medical certificate and additional qualifications for specific types of ship e.g. tanker, high speed craft



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MLRU

What is the reason for the effect we call squat?

- A** Increased velocity and decreased waterpressure around the ship's hull

MLRU

What is the reason for the effect we call squat?

- A** - There is an increase in the water velocity and a decrease of water pressure around the ship's hull

MLRW

What is the correct name of the part highlighted in the sketch?

- A** Connecting rod

MMCW

You are part of a team of two First Aiders in a resuscitation situation. What is the rythm of resuscitation with two First Aiders?

- A** 5 compressions after every 1 inflation

MMGB

Which of the following two digits codes is used to obtain maritime assistance ?

- A** 39

MMMU

If your vessel is fitted with wires on self-stowing split drum winches, the advantage of having these split drum winches is:

- A** All the listed alternatives

MMMXX

When we are measuring temperature with a thermistor, the name of the sensing device is:

- A** Temp sensitive semi-conductor

MMMXX

When we are measuring temperature with a thermistor, the type of sensing device is:

- A** Temp sensitive semi-conductor

MMPK

When you are calibrating an instrument what is the most common first step in the procedure ?

- A** Adjustment of Zero-point and span

MMPK

When you are calibrating an instrument what is the most common first step in the procedure (consult the manual)

- A** Adjustment of Zero-point and span

MNGY

When 3 phase alternators are operating in parallel, it is very important that the reactive load is evenly shared so that the total alternator loads are evenly shared. If the total alternator load is the vector sum of active and reactive loads, which side of the vector diagram (power triangle) shown represents the

- A** (Y)



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MNGY	When 3 phase alternators are operating in parallel, it is very important that the reactive load is evenly shared so that the total alternator loads are evenly shared. If the total alternator load is the vector sum of active and reactive loads, which side of the vector diagram (power triangle) shown represents the
A	(Y)
MNGY	When 3 phase alternators are operating in parallel, it is very important that the reactive load is evenly shared so that the total alternator loads are evenly shared. If the total alternator load is the vector sum of active and reactive loads, which side of the vector diagram shown represents the reactive load?
A	(Y)
MNHS	When adjusting the valve clearance between rocker arm and pushrod, the cams on the camshaft for each cylinder shall be:
A	Negative
MNIN	Whilst in the Engine room you hear the CO2 release alarm, what action if any should you take.
A	Leave the engine room as quickly as possible, closing all doors behind you.
MNNO	How is the opening pressure ( setpoint ) adjusted in a fuel injector valve ?
A	By spring.
MNOM	What are the GMDSS sea areas?
A	A1,A2,A3 and A4
MNQU	The legal type VHF-antenna has a length of:
A	1 meter
MNXM	What is the name of the simplest hydrocarbon composed of one carbon atom and four hydrogen atoms?
A	Enough capacity to secure a certain draft.
MNYK	Which position is the best to stop bleeding from the nose?
A	Sitting on a chair, leaning forward, with two fingers pressing the nose together.
MOBB	What is the general requirement for the closing mechanisms of the inlets and outlets of all the ventilation systems?
A	Closing must be possible from outside the spaces being ventilated
MOCN	Which of the following has the highest iron content per 100 grams?
A	Liver



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**MODM**

When testing a overhauled fuel valve, the test pump is to be operated as follows:

- A** Pushed by sufficient force to accurately check the correct opening pressure

**MOGR**

Under what circumstances may a watch-keeping engineer normally undertake other, non-watchkeeping duties?

- A** When he is properly relieved.

**MOGR**

Under what circumstances may a watch-keeping engineer normally undertake other, non-watchkeeping duties?

- A** When they have been properly relieved of their watch-keeping duties.

**MOGR**

Under what circumstances may a watch-keeping engineer undertake other duties?

- A** When he is properly relieved.

**MOGR**

Under what circumstances may a watch-keeping engineer undertake other duties?

- A** When they have been properly relieved of their watch-keeping duties.

**MOMN**

A wire aerial for an MF/HF –transmitter must be suspended between isolators:

- A** to prevent contact with earth

**MOQU**

If some of the passengers are disabled, i.e. using wheelchair, cane, blind etc. What precaution should the crew take?

- A** All passengers that will require some form of assistance in case of evacuation, etc. must be registered, so there can be sent crew to assist them if needed.

**MOSN**

The INMARSAT A Mobile Earth Station Identification Number (IMN) consists of:

- A** seven digits, beginning by 1

**MPAB**

On the figure 4 possible definitions of the term "PANAMA LEAD" are given. Which one is the correct one?

- A** Panama lead is given by C on the figure

**MPAV**

A distress-alert call from an RCC or coast-station, preceding distress alert relay, begins with:

- A** MAYDAY RELAY (3x)

**MPTB**

What indicates that lube oil has been diluted by fuel oil?

- A** A change in the viscosity of the mixture.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MPUV

A battery of 24 Volt supplies during 10 hours a current of 6 ampere. What is the capacity supplied:

**A** 60 Ah

MPYB

Which of the following tinned products should be kept in cold storage?

**A** Peaches

MPYD

At what latest time shall doors, sidescuttles, gangway doors, cargo- and coaling ports and other openings which are to be kept closed watertight at sea be closed at the start of the voyage?

**A** Before leaving the port

MPYH

What does the Captain think about the Chief Mates question?

**A** He wants the OS to train as helmsman today, because they are sailing in open waters and there is not much traffic in the area

MPYI

Which of the following actions will most effectively prevent fire in a cabin?

**A** Ensuring that all persons avoid smoking in bed.

MQBS

What are the duties of the master, specially stated in the NIS act chapter 3?

**A** To make a copy of the NIS act and the CBA accessible to the crew if referred to in a contract

MQFA

In a smoke filled alleyway where will the cleanest air be found, and how should you proceed out?

**A** Near to the deck, crawl out keeping your face as near to the deck as possible.

MQIM

The diagram shows the lead of a rope during mooring operations and the possible point where it may break. Where would be considered the safest place to be standing?

**A** Outside the coloured zone.

MQPV

To accommodate expansion of piping on the deck of a chemical tanker the following are fitted:

**A** Natural bends at intervals?

MREW

Can you stow Acrylonitrile adjacent to Caustic Soda ?

**A** No

MRJA

When one ship is unmooring from another which is at anchor, the unmooring crew should be instructed to cast off lines:

**A** As and when the manoeuvring vessel instructs them to do so.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- MRJS** Which one of the listed requirements regarding lifeboat fittings do not correspond to present regulations?  
All lifeboats shall be fitted with:
- A** a remotely operated steering arrangement
- 
- MRNI** What is the main purpose of having a deaerator in a boiler feed water system?
- A** Removal of excess oxygen in the feed water.
- 
- MRSN** Some large slow speed diesel engines have jack bolt arrangements for retaining the main bearing top keep in place rather than the more conventional stud bolts. How does this arrangement affect the maintenance and checking procedures for the tie rods on the engine?
- A** The tie rods should be fully tensioned before the jacking bolts are loaded to avoid
- 
- MRTW** Which Part(s) of the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc" deal (s) with Regulations concerning arrangement and keeping of Ship Log Books/Control Register?
- A** 17.
- 
- MRTW** Which Part(s) of the book "Excerpts from the Norwegian Ship Control Legislation" deal(s) with Regulations concerning arrangement and keeping of Ship Log Books/Control Register?
- A** 17.
- 
- MRWE** Anyone of the crew who is assigned to watch duties in ports has a number of important tasks to carry out. Which one of the listed tasks has to be included in the watchmans duties?
- A** Checking the moorings for tightness/slack.
- 
- MRXG** By DUAL WATCH in maritime VHF-communication is understood:
- A** to keep a listening watch on two channels more or less simultaneously
- 
- MSCB** You are on watch during a ship to ship petroleum cargo transfer operation. An electrical storm is observed in the close vicinity, approaching the ships position. What is the recommended procedure?
- A** Suspend all cargo transfer operations and close vents valves from the cargo system.
- 
- MSCB** You are on watch during a ship to ship petroleum cargo transfer operation. An electrical storm is observed in the close vicinity, approaching the ships position. What is the recommended procedure?
- A** Suspend all cargo transfer operations and close vents valves from the cargo system.
- 
- MSCD** On routine daily inspection you notice that there is a light arching between an alternators carbon brushes and rotor sliprings, with alternator operating at 70% load. Should you:
- A** Check the surface of the sliprings, polish if necessary and bed in the brushes
- 
- MSCD** On routine daily inspection you notice that there is a light arching between an alternators carbon brushes and rotor sliprings, with alternator operating at 70% load. Should you:
- A** Check the surface of the sliprings, polish if necessary and bed in the brushes



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**MSHH**

\*Which of the following action must imperatively be carried out before the central gas extinguishing system is used on a fire in engine rooms, cargo holds or other confined spaces?

- A** Make sure that the compartment has been evacuated

**MSHI**

You are towing a vessel. The total length of the tow is 190 meters. What daylight signals are to be used?

- A** No need of any signal

**MSIC**

In a distress situation and immediately after the distress signal has been sounded, what next action should be taken by the officer on duty?

- A** Use the intercom to inform crew and passengers of the reason for the alarm.

**MSID**

The ship recommends a cow pressure of 9 bar. Where do you find this recommendation on your vessel?

- A** The vessel's cow manual.

**MSLO**

How often shall each member of the crew participate in an "abandon ship"-drill?

- A** Once every month

**MSMI**

What equipment and accessories are provided in a liferaft to help you keep warm in cold weather ?

- A** the floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)

**MSPP**

According to the rules of GMDSS, on behalf of safe navigation a listening watch should be Kept on:

- A** VHF-channel 13 in the areas where the master deems it necessary

**MSQK**

Which Act has a provision that reads as follows: " The shipmaster shall take care that a copy of this Act and of the regulations issued in pursuance of the Act is to be found on board" ?

- A** The Seaworthiness Act.

**MSSY**

On the MF/HF transmitter-receiver there is a volume control. Another name for this is:

- A** AF-gain

**MSVK**

A lifejacket should be provided with:

- A** A whistle and a light

**MSXD**

When filling departure ballast on a clean ballast tanker, which valve is the last to be opened after the pump has started (M/T «Seagull» is equipped with steam driven centrifugal pumps).

- A** The sea chest valve.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- MTBD** Unloading a generator, it is necessary to gradually decrease the load in order to avoid:
- A** Undue overspeeding.
- 
- MTBD** Unloading a generator, it is necessary to gradually decrease the load in order to avoid:
- A** Undue overspeeding.
- 
- MTDB** What would be the correct definition of the term "Squat"?
- A** Increase in draft to the point on your ship which is closest to the bottom
- 
- MTDD** What is the correct name of the part highlighted in the sketch?
- A** Fuel injector
- 
- MTDT** \*Give the meaning of the following symbol
- A** Start engine
- 
- MTDW** What is the separator's intention?
- A** To remove solids, water and sludge.
- 
- MTMD** The nationality of a ship can be determined by means of:
- A** the MMSI
- 
- MTNX** What does Solas 74, chapter III, regulation 9 refer to concerning notices onboard?
- A** Operating instructions for life-saving appliances.
- 
- MTQH** Which of the following requirements corresponds to present regulations? (NSCL 4/11.1)
- A** During embarking and disembarking the driving ramp shall be securely locked to the recess of the ferry.
- 
- MTTQ** Which of the following is true when comparing Plate Type with Shell and Tube Type Heat Exchangers?
- A** All of these.
- 
- MULC** On most passenger ferries there are no requirements regarding passenger muster exercises. What is the most effective way of informing embarking passengers.
- A** Information about muster station on boarding card, poster in cabins, safety video running continuous.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MUNT

If a fire starts in the fuel tanks of a vessel, the fire will be ?

A a class B fire

MUNT

If a fire starts in the fuel tanks of a vessel, the fire will be ...

A a class B fire

MUPE

If the temperature decrease, what will happen with the interface in the bowl ?

A Broken water seal, oil outside the top disc.

MUSR

In a distress situation, how many times or for how long should the emergency alarm signal be sounded?

A Until all crew members and passengers have reported to their respective muster stations

MUUI

Which class of emission is used for VHF radio telephony transmissions ?

A G3E

MUWW

Thermocouples are often used for measuring temperatures. Which of the following descriptions are valid for a thermocouple?

A A junction between two dissimilar metals generates a small voltage.

MUWW

Thermocouples are often used for measuring temperatures. Which of the following descriptions explains the principle of operation of a thermocouple?

A A junction between two dissimilar metals generates a small voltage.

MVDM

In the public radio-traffic a radio telephony collect call is:

A a collect call

MVGA

For which of the following groups of substances or materials is the use of water as an extinguishing agent dangerous?

A Sodium hydrosulphite , potassium hydroxide, magnesium

MVGB

In a fixed gas fire-extinguishing system

A All the answers are good

MVJI

What is polymerising?

A Polymerisation take place when a single molecule react with another molecule of the same substance to form a dimer



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MVNV

B

A 30 minutes.

MVPG

You are in charge of discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level measured one meter below deck in a tank during crude oil washing? (IMO Reg)

A 8 %

MVPG

You are in charge of discharging and crude oil washing operation on a crude oil carrier. ISGOTT requires that the atmosphere is measured in two places before washing of a tank is commenced. One is the middle of the ullage space but what is the other?

A 8 %

MVPI

What does the term DISCHARGE mean, as used in the Oil Pollution Regulations?

A All the other alternatives

MVQI

You are carrying out a search in a smoke filled room wearing BA. How would you conduct this search?

A Carry out a right or left hand search and proceed carefully feeling the area in front with the foot and using the back of the free hand to check the area in front.

MVSL

Thermo-elements will typically have

A Relatively wide range of temperature measurement

MVST

How many rocket parachute flares are carried in each lifeboat?

A 4

MVTM

Which of the following features is required for an anti-exposure suit ?

A has a lateral field of vision of at least 120°

MVVV

The ship has a single fixed pitch right-handed propeller and is going astern as illustrated. What is the most likely way the ship will react in these circumstances?

A The stern will "back" into the wind

MVYL

When using an electric dishwashing machine, is it necessary to pre-wash the dishes?

A It is recommended, especially when dishes are heavily soiled.

MVYO

Mariphone channels for ship-ship traffic are working on the following principle:

A simplex



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MWAH

Indicate the correct name for the tool on the sketch:

A Water Pump Pliers

MWIT

The number of oscillations of a wave per seconds is called :

A Frequency

MWLB

What does the circuit represent?

A A zener barrier. (Positive)

MWOJ

Which of the following features is required for an anti-exposure suit ?

A covers the whole body with the exception of the head and hands and possibly feet

MWVC

By propagation in radio-traffic is understood:

A the way in which radio waves travel are propagated

MWXV

The refrigeration system for the ships provisions consists of a number of cold rooms served by a central refrigeration system. The evaporator coils for the vegetable room are found to be frosting up even though the room is down to temperature and the liquid line valve has closed. Select, from the options given, the

A Back pressure control valve.

MXEE

\*The smoke detector (fire indicator) indicates a fire in a cargo hold loaded with general cargo; this is immediately followed by a heavy smell of fire. What action should be taken first?

A Close the ventilation system and other openings to the hold in order to choke the fire

MXFW

What does this crane signal indicate?

A Hold

MXGR

What could be the most probable cause to an abnormal lubricating oil pressure?

A The oil relief valve on the cylinder block or the safety valve in the oil pump is sticking.

MXGV

If circumstances permit, how should low expansion foam be applied to oil burning in the bilges of the engine room?

A The foam should be directed towards the bulkhead behind the fire and allowed to spread out slowly over the fire

MXIK

\*What is the meaning of this symbol ?

A Lower lifeboat to water



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- MXIO** Cleaning is hard work and could be hazardous to one's health if no precautions are taken. What should one do?
- A** Always use correct working techniques for all cleaning duties.
- 
- MXKY** What will You do if the plate exchanger leaks after cleaning and is back in service. (The measurement A is tightened to minimum measurement.)
- A** Dismantle the exchanger and check or renew the rubber packings.
- 
- MXLY** Use Kirchoffs voltage law and Ohms law to calculate the voltage V(2) across the resistance R(2).
- A** 4,5 V
- 
- MXLY** Use Kirchoffs voltage law and Ohms law to calculate the voltage V2 across the resistance R2.
- A** 4,5 V
- 
- MXOG** If the subject is subject to manning control, which documentation must the master have at hand?
- A** Master's record and Documentation file.
- 
- MXSP** On the MF/HF transmitter-receiver there is a sensitivity control. Another name for this is:
- A** RF-gain
- 
- MXTI** Which part of the float-free arrangement for inflatable liferafts is made to free the container of the liferaft from its berth during the ship is sinking?
- A** the hydrostatic release unit
- 
- MYBP** In radio telephony what is the "URGENCY CALL" which should be used to indicate that you have a very urgent message to transmit concerning the safety of another vessel or person?
- A** Pan Pan (3 times)
- 
- MYBQ** Give the meaning of the following symbol
- A** A class division
- 
- MYBR** What are we calling materials with same molecule formula, but the properties are different because the atom structure is different?
- A** Total pressure head
- 
- MYDH** A PH scale (meter or strip of paper) has values from 0 to 14. Which value is neutral?
- A** 7





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

MYDJ

In maritime radio traffic sea area A2 is considered a sea area:

- A** where reliable radio communication can be established with the use of a DSC on the MF frequency of 2187.5 kHz with one or more coast stations

MYGV

What is an independent cargo tank ?

- A** It's a cargo tank where all piping or venting piping are separated and in not connected to other systems.

MYGW

If you detect a fire on board the ship, dependent on the situation, which of the following actions is the first to be taken?

- A** Raise the fire alarm.

MYJB

Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

- A** controlling the movements of passengers.

MYNK

Public correspondence MF communications should normally be operated :

- A** In J3E mode - on simplex basis

MYPX

Exemption to serve as master on board a NIS ship for Non Norwegian citizens needs to be given by:

- A** The Norwegian Maritime Directorate

MYUS

In discussing the properties of chemical cargoes, what is the "Odor Threshold" of a product?

- A** You will be able to smell the presence of the actual gas if the concentration is 5 parts per million or more.

MYYD

How many rocket parachute flares are carried in each liferaft?

- A** 4

NADK

Some liquefied gas carriers are fitted with cascade type direct cooling plants to meet cargo vapour reliquefaction requirements. What is the cargo vapour normally condensed against in a cascade type cooling plant?

- A** The cargo vapour is normally condensed against freon in a cascade cooling plant

NAJH

What is Hypothermia and how is it cured?

- A** Body temperature below 35C / Heat the body

NAJJ

What is meant by settling in slop handling?

- A** Separation of water and oil.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NASM

The exhaust temperature in a 4 stroke diesel engine is:

- A increasing with poorer cooling of the air in the air cooler.

NAUC

Ships personnel who assume overall charge of Crude Oil Washing operations must be trained to the satisfaction of the Flag State administration. Which of the following are conditions that must be met before a person can assume such responsibilities?

- A To fill up the lines slowly.

NAUC

Ships personnel who assume overall charge of Crude Oil Washing operations must be trained to the satisfaction of the Flag State administration. Which of the following is a summary of the conditions that must be met before a person can assume such responsibilities?

- A To fill up the lines slowly.

NAUC

Ships personnel who assume overall charge of Crude Oil Washing operations must be trained to the satisfaction of the Flag State administration. Which of the following is a summary of the conditions that must be met before such persons can assume these responsibilities?

- A To fill up the lines slowly.

NAWY

Which one of the listed requirements regarding the stowage of a survival craft do not correspond with present regulation? (SOLAS III/13.1) Each survival craft shall be stowed:

- A so that neither craft nor stowage arrangement interfere with the general operation of the ship

NBCP

Name some heat exchangers that are used in cargo handling onboard a gas carrier

- A Cargo heater, cargo condenser, freon condenser, vaporiser, super heater, oil coolers, intermediate cooler

NBEB

A chemical tanker will carry cargoes of allyl alcohol, benzene, and propanolamine. Which of the following is true?

- A Allyl alcohol is incompatible with propanolamine but both are compatible with benzene.

NBFY

What personal protective equipment would be required for mooring operations

- A It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots.

NBFY

What personal protective equipment would be required for rigging an accommodation ladder whilst the vessel is underway?

- A It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots.

NBFY

What personal protective equipment would be required for work overside?

- A It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots.

NBOJ

In a liquid fire the surface of which is about 100m<sup>2</sup>,

- A Flames are usually higher than the diameter of the fire



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NBQX

What is the correct understanding of the term "Bending moments" when applied to ships?

- A Forces which bends the vessel up and down in the fore-aft direction (hogg/sagg). fore-and-aft direction (hogg/sagg).

NBQX

What is the correct understanding of the term "Bending moments" when applied to ships?

- A The longitudinal Bending Moment at any section within the ship is the total moments

NBRR

Under what conditions would a Marine Officer of the MCA detain a vessel?

- A If during a Port state or Flag state visit, or whilst carrying out a safety survey or in the event of an accident or incident and it is discovered that essential safety gear is inoperative or missing.

NBSF

On area A3 the function " Transmission and reception of on scene communications" is mainly based on:

- A the use of MF and/or VHF R/T

NBTI

A ship normally turns (swings) around a point which is not the centre of gravity. What is this point normally called?

- A Pivot point

NCDF

If the heat transfer capacity in a heat exchanger is dropping, the following action should be taken:

- A Clean the heat transfer surface

NCKV

When taking a compass error by amplitude in the higher latitudes when is the best time to take the bearing?

- A Calculate the time of the sunset and then take the bearing

NCMM

\*Which of the following hose lengths corresponds best to the most common ones found onboard?

- A less than 20m

NCMO

Which sailing vessel (A or B) keeps out of the way of the other?

- A B keeps clear of A

NCNE

This figure is a transformer, with two windings,  $N(1) = 2000$  and  $N(2) = 1000$  turns, on a common magnetic circuit. Assume that there is no energy loss in the transformer itself. Calculate the current  $I(2)$  when the current  $I(1) = 2$  A.

- A  $I(2) = 4$  A

NCOG

Which item among those below is included in the normal equipment of every liferaft ?

- A four rocket parachute flares



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NCOX

This graphical symbol is a logic gate with truth table. Which gate?

A OR

NCTB

What is the meaning of this symbol ?

A EPIRB

NCUS

What is the general emergency alarm signal as specified in SOLAS ?

A seven or more short blasts followed by one long blast

NDBP

Which of the following is a characteristic of the warning signs required to be displayed on a tanker vessel while transferring any hazardous cargo?

A The signs use black lettering on a white background

NDFR

How would you ventilate the cargo holds of a General Cargo Vessel, when sailing from hot climate to cold climate?

A Ventilate excessively?

NDGM

When an air compressor is going to be started it is important that the compressor is started with the "blow off" valves open. Why?

A To ensure that we do not have any water assembly in the cylinders when the compressor start.

NDKP

Find the value of the voltage drop from terminal A to terminal B in this circuit:

A - 38 V

NDKR

Which of the following cargoes are liable to spontaneous combustion?

A Coal?

NDLP

\*Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

A use of communication equipment

NDLR

Which one of the listed requirements regarding lifeboat equipment correspond to present regulations?  
The normal equipment of every lifeboat shall include:

A sea-charts and navigating equipment

NDLR

Which one of the listed requirements regarding lifeboat equipment do not correspond to present regulations? The normal equipment of every lifeboat shall include:

A sea-charts and navigating equipment



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NDMF	Describe the various stages to be followed in carrying out a disciplinary procedures
A	Informal warning(s), Formal warning(s), Dismissal,
NDQY	*A particular vessel is equipped with the possibility to insert CO2 in the scavenging air belt in case of uncontrolled fire. What are the actions to be taken in case of fire in the scavenging air belt?
A	Reduce the RPM to reduce the scavenge air temperature
NDQY	*A particular vessel is equipped with the possibility to insert CO2 in the scavenging air belt in case of uncontrolled fire. What are the action to be taken in case of fire in the scavenging air belt?
A	Reduce the RPM to reduce the scavenge air temperature
NEAR	To choose the HF-band, the time difference between 2 stations:
A	is important
NEAR	To choose the HF-band, the time difference between 2 stations is:
A	is important
NEAW	*Give the meaning of the following symbol
A	Secure hatches
NECK	On the figure 4 possible definitions of the term "AFT SPRING" are shown. Which one is the correct one?
A	Aft spring is defined as A on the figure
NEEW	According to SOLAS, every persons assigned to crew the rescue boat or assigned to the marine evacuation system party shall be provided with:
A	an immersion suit or an anti-exposure suit
NEGL	Your ship is operating with a right handed propeller. Before coming astern, how should you apply the rudder?
A	As with no. 2
NEJV	*You are on board a cargo ship. The ship is heavily listing to starboard, making impossible the launching of the survival craft stowed on this side. Lifeboats and liferafts are equally distributed on each side of the vessel. What should be the total number of persons that can be accommodated in the remaining survival
A	at least 200 % N (lifeboat capacity: 100 % N; liferaft capacity: 100 % N) (*)
NELP	What are the prerequisites for a CBA (Collective Bargaining Agreement) to be applied to service on NIS ships?
A	That the CBA expressly states that it applies to NIS ships and is subject to Norwegian laws and courts of law unless courts of another country is explicitly mentioned.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- NEQI** A young person joins the vessel i.e. someone less than 18 years old, what procedure must be followed when signing him on the Crew Agreement?
- A** He would be signed in form ALC 1c
- 
- NFBH** Which of the letter(s) indicate(s) that the regulations apply to "non-convention ships" only?
- A** Letter b.
- 
- NFDV** On a MF/HF-transmitter-receiver there is a volume control. Another name for this is:
- A** LF-gain
- 
- NFFQ** Which one of the given requirements regarding survival craft muster and embarkation arrangements do not correspond with present regulations? (SOLAS III/11)
- A** Searchlight to be provided at the launching station
- 
- NFGJ** \*Give the meaning of the following symbol
- A** Lower lifeboat to water
- 
- NFPJ** What would be the most probable cause of a drop in lubricating oil pressure?
- A** Lub oil cooler is clogged.
- 
- NFTP** Pollution Regulations require that each scupper in an enclosed deck area have a:
- A** None of the other alternatives
- 
- NFTW** What do we mean with an hold space on a gas carrier?
- A** Hold space is the space enclosed by the ship's structure in which a cargo containment system is situated
- 
- NFUP** \*Thermal protective aids are provided in any liferaft as follows:
- A** either 10% of the number of persons the liferaft is permitted to accommodate or 2 whichever is the greater
- 
- NFVF** What would the Chief Officer require prior to the vessels departure from the berth?
- A** He wants the anchor secured thoroughly
- 
- NFVG** After cleaning and back in service, You observe that the heat transfer is bad. What is the first thing to do?
- A** Check for proper air vent of the exchanger.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**NFVL** You notice the sump level in an engine has increased and no new oil has been added. What action would you take?

**A** Stop the engine and check for a fuel or water leak.

**NFVL** You notice the sump level in an engine has increased and no new oil has been added. What action would you take?

**A** Stop the engine and look for a fuel or water leak.

**NGAH** Which of the following detailed explanations should be mentioned in the Training Manual ?

**A** The use of drogues

**NGFM** From which locations is it normally possible to close watertight doors?

**A** Both local, remote from bridge and one emergency remote control station

**NGFM** From which locations is it normally possible to close watertight doors?

**A** Watertight doors can be closed adjacent to the door and remotely from bridge and also

**NGOL** As regards the launching and recovery arrangements for rescue boats which is required among the following?

**A** Rapid recovery shall be possible with the boat's full complement of persons and equipment

**NGPG** What will happen in a purifier bowl if either; oil density, viscosity or flow increase

**A** The interface moves outwards

**NGPM** An inflatable lifejacket will inflate:

**A** either automatically on immersion or by a single manual motion or by mouth

**NGQJ** What shape of hull does a course-stable ship usually have?

**A** A ship with a long, slim hull

**NGST** What effect would increase of sea temperature have on your amount of cargo onboard?

**A** Proportional increase - higher temperature - more volume.

**NGWA** The obligation to identify oneself when using VHF is:

**A** always



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NGXP

Which one of the listed requirements regarding abandon ship drills corresponds to present SOLAS regulation?

- A** Each lifeboat shall be launched with its assigned crew, and manoeuvred in the water at least once every three months during an abandon ship drill.

NGXU

Which, if any, are the restrictions for trading areas on NIS ship when cargo is concerned?

- A** They may not carry cargo between Norwegian ports.

NGXU

Which, if any, are the restrictions for trading areas on NIS ship when cargo is concerned?

- A** They may not carry cargo between Norwegian ports.

NHGF

If diesel fuel contamination occurs in the crankcase oil of an auxiliary engine, the oil viscosity will:

- A** Decrease.

NHLF

Who can request a formal "maritime inquiry" if a collision occurs between a Norwegian ship and a British ship?

- A** Any one of The Norwegian Maritime Directorate or the shipowner or the master.

NHPH

Most check lists have a block-tick off set-up. Which one of the following arguments is valid?

- A** Should be informative for both operational parties?

NHUH

Which of the following watches must a vessel maintain when sailing in Sea Area A1?

- A** A continuous DSC watch on Channel 70.

NHUI

Special types of periscopes are fitted to boilers to observe

- A** smoke going out the stack

NIAX

Tests on the water in a low pressure boiler show the chloride level is 500 ppm. What action should be taken?

- A** Blow down boiler and check condenser for leakage.

NIBB

Rigging of the Pilot Ladder and embarkation/disembarkation of a pilot shall be supervised by:

- A** - A responsible Officer

NIBB

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**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NIBB

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NIBB

Rigging of the Pilot Ladder and embarkation/disembarkation of a pilot should be supervised by:

A A responsible Officer

NIBX

What is one of the dangerous states a survivor may suffer from?

A Hypothermia

NIDO

If you as duty officer see any damage done to the cargo by the stevedores, what shall you do?

A Inform the stevedore superintendent, the chief officer, and write a damage report?

NIDQ

The distress message is used when the vessel is threatened by a serious and imminent danger and is in need of immediate assistance. What is the telegraphy and telephony distress message like?

A S O S (Telegraphy) / MAYDAY (Telephony)

NIDR

You have checked the oil viscosity in an auxiliary engine with the viscosity test kit. The result shows that the viscosity is high. What will You do?

A Clean the system and change the oil.

NIDT

When a fire breaks out in the accommodation, cargo holds or on deck, who is in charge of the fire fighting operations?

A The person who is designated in the muster list

NIGD

What is CSS an abbreviation for?

A Co-ordinator Surface Search

NIHX

Some engine manufacturers recommend that water washing of the compressor side of a diesel engine turbocharger using chemical cleaners is no longer carried out. Why is water washing no longer considered good practice?

A Greasy sludge from the compressor sticking between the fins in the air coolers, necessitating extra cleaning of these.

NIHX

Some engine manufacturers recommend that water washing of the compressor side of a diesel engine turbocharger using chemical cleaners is no longer carried out. Why is water washing no longer considered good practice?

A It can cause fouling of the charge air cooler with wet sludge lodging between the fins.

NIIL

A loaded VLCC ship is stopped and Not Under Command in open sea and is observed to be drifting towards the SSE at a rate of two (2) knots. Will the direction and rate of drift be the same for the ship if it was in ballast condition?

A No, drifting in ballast condition may be quite different



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NIMS

Give the meaning of this symbol:

A lifebuoy with light

NING

OPA-90 is applicable for the following types of vessels

A All vessels carrying more than 10 000 gallons of oil , irrespective whether as cargo or bunker

NIUB

What will the cadet find in the engine store?

A He will find new brake bands in the engine store

NJAV

The engine room is equipped with regular fire hoses and nozzles. What is important to observe when using water as an extinguishant in the engine room?

A All the mentioned alternatives.

NJBT

What does the abbreviation "SBT" stand for in the context of the construction and layout of an oil tanker?

A Segregated ballast tanker.

NJBY

The outside manually controlled lamp of a liferaft must be capable of working at minimum for a period of:

A 12 h

NJOJ

An enclosed lifeboat is fitted with a self-contained air support system. With the engine running, what is the minimum period of time the air should remain safe and breathable?

A 10 minutes

NJWV

The diagram shows a calibration curve for a pressure gauge. What is an alternative name for the slope of the characteristic?

A Sensitivity

NJXQ

The function of the fuses in a motor starter circuit is to provide:

A Short circuit protection.

NKEH

What is the first action to be taken when you have a fire shut down on the boiler

A Call the engineer on watch

NKJG

The greatest limitation of the fixed pressure water-spraying fire-extinguishing systems is a danger of

A All answers are good



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NKMQ

What specific work carried out on board requires a risk assessment to be carried out?

**A** All work

NKPW

The picture shows a liquid filled thermometer. Liquid filled thermometers and manometers are often installed onboard ships. What is the main purpose by the liquid filling of such pointer instruments?

**A** Reduce mechanical wear on the internal parts caused by vibration

NKPW

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**A** Reduce mechanical wear on the internal parts caused by vibration

NKSP

During regular inspection of alternator windings it is found that windings are always covered with a heavy oil film coming from the atmosphere surrounding the auxiliary engine. After cleaning with an approved solvent, what do you do?

**A** Improve material of intake air filters

NKSP

During regular inspection of alternator windings it is found that windings are always covered with a heavy oil film coming from the atmosphere surrounding the auxiliary engine. After cleaning with an approved solvent, what should be done?

**A** Improve material of intake air filters

NKVO

How can a new officer, just boarding a ship, ensure that he knows the location and operation of all navigational and safety equipment and take account of the operating limitations of such equipment?

**A** By have him demonstrate his ability

NKVV

Which special regulations cover transportation of Bulk cargoes?

**A** IMO Solid Bulk Cargoes Code?

NLAA

Command of radio-telephony traffic between vessels and coast-stations lies with:

**A** the coast-station

NLCN

Which one of the listed requirements regarding the use of an immersion suit do not correspond to present regulation? The suit shall permit the wearer to:

**A** climb up and down vertical ladders from the survival craft embarkation point to the water

NLEG

What would be a correct form of response to the question: Have you altered course?

**A** Marine Pollution means that the marine environment is contaminated by harmful or unacceptable liquids, substances or particles

NLIE

Give the meaning of the following symbol

**A** Foam installation



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NLKW

Give the meaning of the following symbol

**A** Fire alarm bell

NLMM

In the charts, objects are sometimes marked "Racon". What is that?

**A** A buoy or a lighthouse which is activated by a ship's radar, this is indicated by a marker on the radar

NMAS

What does the "S" mean in the Hazard column under summary of minimum requirements in the IBC ?

**A** It means that the product is included in the code because of it's safety hazards.

NMBQ

You are on duty during the loading of a tanker in Ras Tannurah. The deck watchman reports ... a lot of oil on the water.... What should be your FIRST action?

**A** Tell the jettyman to stop loading immediately.

NMKT

The range of a transducer is 0-200 bar. The output signal is 4-20 mA. What is the span of the output signal?

**A** 16 mA

NMKT

The range of a transducer is 0-200 bar. The output signal is 4-20 mA. What is the span of the output signal.

**A** 16 mA

NMRJ

Which of the following fittings shall be provided to all lifeboats:

**A** a non-skid finish on all surfaces on which persons might walk

NMTV

There is a requirement in MARPOL for the slop tank capacity of oil tankers. What is the requirement for SBT tankers?

**A** 3% of the total cargo volume.

NNDD

When directing an Inmarsat-A aerial the following is irrelevant:

**A** the speed of the vessel

NNEO

When you are connected up to the barge/shore facility and ready to start, who is giving the order to start pumping?

**A** The engine officer in charge of bunkering on the receiving vessel

NNFL

What would be the most probable cause of too high an exhaust gas temperature from one cylinder?

**A** Leaking injection valve.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NNFN

Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. Why is this position so important?

- A** The position ensures that an open airway is maintained.

NNFR

Which of the following is not a DSC watch frequency?

- A** 2182 kHz.

NNJV

Ship staff shall inspect all lifting equipment and record the inspection in the cargo gear record book at intervals of:

- A** Yearly

NNOO

What is the meaning of this symbol ?

- A** Lifebuoy with light and smoke

NNPO

DSC-transmissions with the tele-command 'test' can:

- A** not be sent by VHF-installation

NNPQ

The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

- A** Keep your working area clean and tidy.

NNSX

Indicate the correct name for the part marked on the sketch:

- A** Piston rod

NNTP

\*Which one of the following items has to be included in an abandon ship drill?

- A** ensuring that passengers and crew are made aware of the order to abandon ship

NNTR

What is a hydraulic hand pump usually used for?

- A** The hydraulic pump is usually used for tightening the G-nuts

NNVH

How often must a safety committee meeting be held

- A** Not specified exactly, but recommends at periods between 4 and 6 weeks

NOAH

The passage of electrical current through the body may result in severe and sometimes fatal injuries. You are witness to man getting electric current through his body and is stuck to the dangerous area. It is impossible to switch off the current by any main switch. How to break the current safely?

- A** Stand on dry insulating material and pull the person away with isolating material.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NOGG

As a general rule, where would you expect to find a portable fire extinguisher in any space?

**A** Near to the entrance to the space

NOIP

The number of sequential transmissions of a MF/HF-DSC distress alert single frequency call attempt is:

**A** 1

NOIR

EGC is short for:

**A** Enhanced Group Call

NOOL

What is the correct name of the equipment shown in the sketch?

**A** Drill press

NOTM

Give the meaning of the following symbol

**A** Area protected by CO2

NOYM

Your vessel has been involved in a collision, which has resulted in a heavy oil leakage. Who should be called to handle pollution claims and damages?

**A** The P & I Club's nearest representative.

NPLF

Which one of the following types of rope is the most dangerous to work with?

**A** Nylon.

NPQE

\*Where do you find minimum drill requirements?

**A** In the SOLAS convention and its annex

NPRT

Give the meaning of the following symbol

**A** A class fire door

NPST

As regards supervising authorities at home and abroad it is determined that:

**A** they always have access to the radio-equipment on board

NPVG

The basic components of the self-contained breathing apparatus are...

**A** Mask, bottle, frame, medium pressure valve and low pressure valve



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NPVV

Why is it important to slow down the main engine RPM while water-washing the turbocharger?

- A** Not to damage the rotor blades.

NPVY

Integral tanks for gas carrier cargo containment systems are those which form a structural part of the hull. Are integral tanks normally allowed as cargo tanks on LPG carriers?

- A** Integral tanks are normally not allowed on gas carriers if the cargo to be carried have boiling point less than -100C at atmospheric pressure

NPWY

What is the correct temperature for storing bananas?

- A** 13 - 14° C

NQAF

\*Which of following items shall be included in an abandon ship drill?

- A** starting and operating the lifeboat engine

NQHW

Give the meaning of the following symbol

- A** Smoke detector

NQKI

A conventional tanker has most of its tanks slack during the discharging of oil cargo, it is not of any great consequence; however, if an OBO has most of its holds slack during discharging (or loading) of oil cargo this will:

- A** Likely cause a sudden or violent list due to the very large free surface in the broad beamed holds?

NQMS

What kind of problems have they had?

- A** They have had problems securing the gangway

NQQE

Ships of 10.000 tons gross tonnage and more, may be fitted with oil fitting equipment, complying with Reg.16 (7) of MARPOL 73/78 for the control of machinery space bilges. What would be the maximum "Ppm" of oily-water mixture to pass through the filter?

- A** 15 ppm

NQRT

Which of the following types/sizes of vessels in international trade do not have to be fitted with a radiotelephone station?

- A** Cargo ships below 300 tons gross

NQVA

Which of the following information shall be specified by the muster list ?

- A** how the order to abandon ship will be given

NQVW

Which one of the listed items has to be included in a distress message?

- A** Identification of the ship.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NRAA

A power card taken from a diesel engine cylinder using a mechanical indicator has a flat top. Which of the possible actions given in the options is most likely to correct this irregularity on the power card?

- A** Change the indicator spring for one with a higher rating.

NRCQ

Which one of the listed fire-extinguishing medium is to be preferred to fight a fire in an electric installation (for example the main switchboard)?

- A** Powder.

NRCW

Which personnel must undergo familiarization training on board

- A** Everyone

NRDN

How often must a risk assessment be reviewed?

- A** Annually or more frequently due to new methods being employed or following an accident

NRLY

Which PPM is allowed for discharging of "Bilge Water" overboard?

- A** 15 PPM

NRMV

\*What is the list that must be overcome by a self-closing fire door on a passenger ship?

- A** 3,5?

NRMW

On the figure there are four (4) possible definitions of the term "AFT" shown. Which one is the correct one?

- A** Aft is defined as A on the figure

NRNJ

What must the oxygen content of the atmosphere be within the cargo tanks of an oil tanker prior to loading?

- A** Must not exceed 8% by volume.

NRNL

\*Which among the following list is particularly required for a totally enclosed lifeboat ?

- A** hatches positioned so as to allow launching and recovery operations to be performed without any occupant having to leave the enclosure

NRWS

What vessels must have automatic fire detection onboard with heat/ smoke detectors and audible alarm?

- A** All ships that are covered by the IMO safety conventions

NRWV

What is the minimum number of lifebuoys carried by a cargo vessel of more than 200 metres in length?

- A** 14





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NSAY

Which of the following pumps will be damaged if the discharge valve is closed before the motor is stopped?

**A** Gear pump

NSDK

Is there a longitudinal bulkhead in membrane tanks?

**A** There isn't longitudinal bulkhead in membrane tanks

NSGS

Is it recommended to adjust the spring tension on the fuel valves during operation to achieve:

**A** Not recommended at all.

NSJD

On the figure 4 possible definitions of the term "FORWARD" are given. Which one is the correct one?

**A** Forward is given by C on the figure

NSNF

What is the meaning of this symbol ?

**A** Lifejacket

NSOF

DSC-test transmissions may:

**A** be sent by an MF-installation on the DSC-distress frequency

NSRP

\*A davit-launched liferaft on board a ship is so arranged to be boarded by its full complement of persons in less than:

**A** 3 min

NSRR

Which statement is true?

**A** The FW-HT is circulated in a closed system, cooling cylinder jackets on Main Engine and aux. Engines

NTAR

What is most important when transferring route plans to other nav. systems?

**A** Both systems use same chart datum

NTAR

What is most important when transferring route plans to other nav. systems?

**A** - Select WGS84 and when plotting on the chart apply the stated j .corrections. \_

NTBL

The main risk for people when using CO2 as an extinguishing agent in a closed space is:

**A** Air suppression



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NTBS	The safety valve on a steam boiler shall:
A	Open, when pressure in the boiler is in excess of normal working pressure.
NTCQ	In which way may intake of poisoning material occur?
A	By inhaling, skin penetrating, skin absorbing and swallowing
NTDJ	The right order and the correct contents of a distress alert is:
A	None of the above
NTFU	What is the purpose of a deck seal?
A	To avoid backflow of gas to the engine?
NTJA	The display of the DSC-controller on board is showing the following lines:TX call:Selectiveto: 02114200 Category:RoutineUSB:telephony DSC Tx 2189.5 kHzsave>send<This DSC-message must be transmitted in the mode:
A	F1B
NTJA	The display of the DSC-controller on board is showing the following lines:TX call:Selectiveto: 02114200 Category :RoutineUSB:telephony DSC Tx 2189.5 kHzsave>send<This DSC-message must be transmitted in the mode:
A	F1B
NTJV	On board a ship, how many lifebuoys can you expect to be fitted with a self-igniting light ?
A	half of the total number of lifebuoys provided on board
NTJX	You want to send a DSC-call in connection with a shore telephone-call. You must choose:
A	routine
NTRG	Which one of the listed requirements regarding the stowage of rescue boats corresponds to present SOLAS regulations. Rescue boats shall be stowed:
A	So neither the rescue boat nor its launching arrangements will interfere with any survival craft at any other launching station.
NTVN	What additional requirements are in place for the employment of a young person?
A	He must sign on in section ALC 1c of the crew agreement, and his hours of work would be carefully monitored and would involve risk assessments being carried out to ensure that he can carry out the tasks given him
NTWM	When an evaporator is operated in extremely cold water you may need to throttle the seawater supply to:
A	Maintain the specified boiling temperature



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- NTXB** If you are called upon to reeve a new wire onto a self-stowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:
- A** Direction B
- 
- NTXB** If you are called upon to reeve a new wire onto a selfstowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:
- A** Direction B
- 
- NUIA** What percentage of crew change would require a lifeboat drill to be held within 24 hours of sailing?
- A** 25 %
- 
- NUSE** A Safety Message is used when circumstances are discovered which may constitute a danger to shipping. What is the telegraphy and telephony urgency message like?
- A** T T T (Telegraphy) / SECURITE (Telephony)
- 
- NUTE** You have a leak cylinderliner ( poor O -rings on a water cooled compressor). Where is the leaking water most likely to go when the compressor is running?
- A** Into the crankcase and mix with the lube oil.
- 
- NUUX** What is the search system pattern called using 1 vessel?
- A** Square System
- 
- NUVL** \*What is the maximum length for a dead-end corridor on a cargo ship?
- A** 7m
- 
- NVAO** How often is the section on Draft and Freeboard completed in the OLB?
- A** Every port
- 
- NVAQ** Describe the contents of the first page of the OLB?
- A** Details of ship, the date of first entry, and list of Masters
- 
- NVCD** What do crew, visitors and contractors all have in common?
- A** They all have opportunity to smuggle drugs
- 
- NVEO** In what kind of atmosphere should tank washing be carried out onboard vessels with inert-gas system?
- A** Inerted to less than 8% oxygen(IMO).



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NVKL

Which class of emission is used for VHF radio telephony transmissions ?

**A** G3E

NVKP

Protective discrimination

**A** Line fuses and overcurrent relays

NVKP

Protective discrimination

**A** Line fuses and overcurrent relays

NVNP

During maintenance work on a main diesel engine the fuel injection valve is found to be jammed in the pocket in the cylinder cover. Which of the procedures given in the options should be followed in order to complete the work?

**A** Replace the complete cylinder cover with a spare unit and land the cover with the

NVQH

When planning the distribution of the cargo, what are the most important forces to take in consideration?

**A** Shear forces and bending moments.

NVRF

Before any portable gas indicators are brought to the measuring spot, what is very important to do with these analysers first?

**A** To do a full calibration.

NVSA

How do You test the probes for the 15 PPM monitor ?

**A** By immersing them in buckets with oil and water.

NVSX

You are in confined waters. Is there any danger in the situation sketched below if you should loose engine power?

**A** Your ship will sheer to starboard rather quickly with the possible consequence of grounding

NVSX

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**A** Your ship will sheer to starboard rather quickly with the possible consequence of grounding

NWDX

You are paralleling two alternators and the pointer of the synchronoscope slowly stops rotating and remains stopped in one position before the circuit breaker is closed. This would indicate:

**A** The frequency of the incoming alternator is the same as that of the main switchboard

NWFJ

A flame detector is activated by:

**A** The infrared radiation and ultraviolet radiation given off by flames



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**NWHD** A motor is protected by a thermal overcurrent relay. After tripping on overload it will not be possible to reset the overcurrent relay because the:

**A** Bimetallic strips need time to cool down

**NWHD** A motor is protected by a thermal overcurrent relay. After tripping on overload it will not be possible to reset the overcurrent relay immediately because the:

**A** Bimetallic strips need time to cool down

**NWJN** Why are knives never to be left submerged in washing-up water?

**A** Because you may cut your fingers.

**NWKI** Emergency exits are provided for personnels safe and quick escape from the engine room in case of fire. The emergency exits are an item to be checked during the Safety Equipment survey annually. What is the surveyor checking?

**A** The surveyor is checking that the emergency exits are properly marked, free from obstacles and that the closing devices are easy operable.

**NWKI** Emergency exits are provided for personnels safe and quick escape from the engine room in case of fire. The emergency exits are an item to be checked during the Safety Equipment survey annually. What is the surveyor checking?

**A** The surveyor is checking that the emergency exits are properly marked, free from obstacles and that the closing devices are easy operable.

**NWLI** On the figure 4 possible definitions of the term "MIDSHIPS" are given. Which one is the correct one?

**A** Midships is given by B on the figure

**NWNS** On the drawing of an oily water separator which is the oil outlet valve?

**A** Upper.

**NWRF** How many hand held distress flares are carried in each lifeboat?

**A** 6

**NWSS** The following information must be given on the SART

**A** date of replacement of the battery

**NWSS** The following information must be given on the SART:

**A** date of replacement of the battery

**NWYL** What can be done to minimize the reduction of GM due to free surface?

**A** Reduce the number of slack tanks



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

NXCC	What alarm signal must be sounded by the alarm bells in case of fire?
A	The signal which is stated in the muster list
NXCD	In accordance with SOLAS and other international regulations, certain important machinery functions, such as operation and control of the steering gear and propulsion machinery, must be tested at specified times. When should these tests be carried out?
A	All mentioned functions
NXCD	In accordance with SOLAS and other international regulations, certain important machinery functions, such as operation and control of the steering gear and propulsion machinery, must be tested at specified times. When should these tests be carried out?
A	Prior to arrival and departure from port and following maintenance
NXEM	What type of construction material should be avoided regarding fire protection purposes? (SOLAS II-2/2.2.3)
A	All combustible materials
NXFE	*How much food per person is supplied on a liferaft marked SOLAS B PACK?
A	None
NYTS	What is the correct position/working area for the deck watchman during cargo operation?
A	On the cargo tank area all time?
NYAJ	Correct start up procedure of an oil fired boiler is that the air fan is running for some time, before oil is supplied and ignition occurs. What is the reason for this?
A	For safety reasons, to ensure that all explosive atmosphere inside the boiler is removed.
NYBB	Radio waves used in satellite communication are not affected by ionosphere because:
A	a disc aerial is used
NYBH	Your ship is going full astern and making sternway. Where will the "pivot point" be located? No wind, current.
A	Somewhere aft of the center of gravity, but it is impossible to pin-point the exact location
NYFJ	What will You do if the plate exchanger leaks after cleaning and is back in service. (The measurement A is tightened to minimum measurement.)
A	Dismantle the exchanger and check or renew the rubber packings.
NYFL	Tanks are to be inspected. Presently they are inerted, empty and water cleaned. Outline steps , if any, to be taken in order to have tanks ready for inspection and then lifting cargo after inspection:
A	Purging inertgas, purging air, inspect, purging inertgas?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- NYSN** The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?
- A** Correct donning of life-jackets
- 
- NYWA** Where do we find information regarding fire extinguishers, fire doors, remotes release buttons, fire equipment etc. onboard a ship?
- A** Information related to fire fighting equipment, release systems etc. do we find in ship fire plan.
- 
- NYWT** If you have taken full bunker, what is important to have in mind?
- A** Pump out a small quantity from each tank at the first opportunity , to avoid having an overflow to deck when you put heating to the tank
- 
- OAES** What do the letters API stand for in relation to oil cargo calculations?
- A** An abbreviation of American Petroleum Institute.
- 
- OAQC** \*What is the term used to designate the work that may cause heat, sparks or flames and that cannot be performed if specific compulsory precautions are not taken in places where nearby flammable products could be present?
- A** Hot work
- 
- OATS** HEL-H is the abbreviation of a heavy helicopter radius of action for rescue purposes. What do you think the radius and evacuating capacity of the helicopter is?
- A** 200 nm and capacity for evacuating more then 15 persons.
- 
- OBCW** What types of fire extinguishers shall be used in the engine room?
- A** Fire extinguishers equipped for powder or CO2 only.
- 
- OBEQ** How many buoyant smoke signals are carried in each liferaft?
- A** 2
- 
- OBJN** What determines the power factor of an alternator when it is connected singularly to the switchboard?
- A** The load connected to the switchboard
- 
- OBLY** Can voyage planning be executed on ECDIS?
- A** - Only if approved by the Flag State
- 
- OBLY** Can voyage planning be executed on ECDIS?
- A** Only if approved by the Flag State



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- OBNS** When a bulwark ladder is used for the pilot to step down onto the deck, such ladder shall have two stanchions provided, which are at least 40 mm in dia, between 70 and 80 cms apart, and at least 1.2 mtrs higher than the bulwark. Such stanchions shall be rigidly secured:
- A** At the deck level and near the bulwark top level.
- 
- OBNV** Will it matter to the accuracy of the measurement how you are installing a resistance element in a thermo-well
- A** Wrong installation will result in a major deviation in measurement
- 
- OBNV** Will it matter to the accuracy of the measurement how you install a resistance element in a thermo-well
- A** Wrong installation will result in a major deviation in measurement
- 
- OBPJ** Which PH - values are recommended when washing tiled bathrooms?
- A** 38237
- 
- OBRV** On all UMS operated vessels and also on most other vessels the engine room is equipped with fire detectors. What requirements of testing and checking of the detectors are to be observed?
- A** All the mentioned alternatives.
- 
- OBRV** On all UMS operated vessels and also on most other vessels the engine room is equipped with fire detectors. What requirements of testing and checking of the detectors to be observed?
- A** All the mentioned alternatives.
- 
- OBYL** What is the meaning of this symbol ?
- A** Embarkation ladder
- 
- OCEG** What term is used to describe a fresh water cooling system which contains a seawater cooled common freshwater cooler and which meets the cooling requirements for all the engine room machinery?
- A** Central cooling system
- 
- OCJJ** When an overhaul is completed and the compressor is going to be started for a test run, it is important that we:
- A** check that we have an open discharge line all the way to the pressure bottle.
- 
- OCKG** Which of the following fittings shall be provided to all lifeboats:
- A** a manually controlled lamp fitted on the outside
- 
- OCSM** A distress alert from an Inmarsat-EPIRB, is received in the coverage area of a satellite by ground station within:
- A** two minutes





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- OC SO** The MF/HF-transceiver on board is tuned to the assigned frequency of a station. To make this connection the following mode is used:
- A** J3E
- 
- OC YK** A class "D" fire involves what type of material?
- A** Metals
- 
- OD AG** Fuel oil from a leaking fuel pipe has been collected in a drip tray under the boiler furnace. The oil is suddenly ignited by a backflash from the boiler burner. You are in the boiler room and you may choose among various extinguishers. Which one can you use?
- A** Any of the mentioned extinguishers
- 
- OD BF** What is the purpose of a fire wire?
- A** Wire for pulling burning ships off the pier
- 
- OD EH** \*What is (are) the basic component(s) of a Fire detection system?
- A** All the answers are good
- 
- OD FH** Which among the following list is particularly required for a totally enclosed lifeboat ?
- A** access hatches which can be closed watertight
- 
- OD MV** \*Which of the following detailed explanations should be mentioned in the Training Manual ?
- A** The method of launching from within the survival craft
- 
- OD NH** A distress alert has accidentally been sent with the Inmarsat-C installation. One should now:
- A** make contact with an RCC
- 
- OD TM** How much can the concentration of oxygen in the air decrease before it is dangerous to stay in the atmosphere without breathing apparatus?
- A** 2 - 3 %
- 
- OE EI** With the DSC format specifier geographical area call besides a reference position the number of the full degree difference in longitude and latitude must be fed in:
- A** westerly and northerly direction
- 
- OE QU** What is the meaning of this symbol ?
- A** Fasten seat belts



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- OEUA** Inflatable splints are made in various sizes and are shaped to the upper and lower limbs. What is the advantages of an inflatable splint?
- A** It is more easy to give correct pressure to the fractured/injured area, and the control of
- 
- OEUA** Inflatable splints are made in various sizes and are shaped to the upper and lower limbs. What is the advantages of an inflatable splint?
- A** It is more easy to give correct pressure to the fractured/injured area, and the control of swelling and bleeding is more easy to observe.
- 
- OEUS** Why are many machinery components onboard ship now tightened using cylindrical jacks and hydraulic oil pressure rather than more traditional methods such as, for example, the use of torque wrenches?
- A** Hydraulic tightening avoids the risk of unwanted bending stresses when compared to
- 
- OEUV** Which preparations and precautions are necessary before "hot work" commences onboard ship?
- A** Follow all ISM procedures relating to hot work including permit to work and hotwork
- 
- OEUV** Which preparations and precautions are necessary before "hot work" commences onboard ship?
- A** Procedures according to instructions for hot and cold work should be carried out and necessary forms filled in
- 
- OEVV** Oil analysis results for a sample of diesel engine lubricating oil show a high level of tin. What could be the possible cause?
- A** Bearing damage.
- 
- OEWT** On the diagram, which arrowed line is indicating the "Breadth" of the vessel?
- A** Abeam is defined as A on the figure
- 
- OEYO** When shall the engineer officer in charge of a watch be readily capable for operating the propulsion equipment?
- A** When the machinery spaces are in the manned condition.
- 
- OEXP** Which one of the listed requirements regarding enclosures of totally enclosed lifeboats do not correspond to present regulations? The totally enclosed lifeboats shall:
- A** have self-bailing arrangements
- 
- OFBQ** What is the minimum air capacity of the self-contained air-breathing apparatus?
- A** 1,200 litres of free air
- 
- OFGT** In the diagram which line would be the "AFT SPRING", if the vessel was port side alongside a jetty?
- A** Aft spring is defined as A on the figure
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OFHS

Which class of fire involves liquids?

**A** Class B fire

OF LW

Which of the following items do not necessarily have to be included in an abandon ship drill? (SOLAS III/18.3.4)

**A** Starting and operating radio life-saving appliances

OF PV

What is meant by being intrinsically safe?

**A** Can not produce enough energy to ignite a gas (explode)?

OF QT

Your vessel is not in distress and not taking part in a distress operation. How would you impose radio silence on vessels which are interfering the distress traffic?

**A** Seelonce Distress

OF SJ

With full load on the main engine, the turbocharger tachometer reads: Too low RPM. Why?

**A** Pick up for tachometer is wrongly adjusted.

OF XF

Via a coast-station radio medical advice is asked using NBDP. What command has to be given after ga +?

**A** med +

OG EA

May an engine room be only protected by a fixed low expansion foam fire-extinguishing system?

**A** No

OG EV

As a general rule, where are pressure containers for the gas of a fixed fire-extinguishing system stored?

**A** Outside the space which is to be protected

OG HH

Why is it important to keep the condense PH- value in correct range?

**A** To neutralize the acids occurring in the condensate system.

OG LP

What is the main purpose of bottom-blowing a boiler?

**A** To get rid of sludge in the water chamber.

OG NG

The receipt of a distress alert is to be pronounced as followed:

**A** mayday (1x), call-sign of ship in distress (3x) / this is / own call-sign (3x) / received mayday



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OGNH How many types are there of independent tanks?

A There are three types of independent tanks, type A, B and C

OGPR High oxygen content in the fluegas may be caused by:

A All the mentioned alternatives ?

OGQP When testing a overhauled fuel valve, the test pump is to be operated as follows:

A Pushed by sufficient force to accurately check the correct adjusting pressure.

OGXE Modulation is:

A blending LF & HF signals

OHCB You are overhauling a centrifugal pump and you are going to fit the ballbearing (tight fit).How would you carry out the work?

A Gently heat the bearing in an oil bath and use a bearing puller to draw it onto the shaft..

OHCB You are overhauling a centrifugal pump and you are going to fit the ballbearing (tight fit).How would you carry out the work?

A Heat the ballbearing in oil, and put it on the shaft.

OHDB The Urgency Message from a ship is used to notify other traffic of a situation where the ship is not in imminent danger, but where the development of the situation is uncertain and may need assistance in the near future. What is the telephony urgency message like?

A PAN-PAN

OHDY In what language/languages must the fire control plans or booklets (or copies of these) be written?

A In the Flag State official language with copies in English or French

OHBU In a low pressure auxiliary boiler, what would You consider to be the normal operating range of phenolphthalein alkalinity?

A 100 - 300 PPM CaCO<sub>3</sub>.

OHFV The bridge wheelman has not reported for duty and there is a suspected "Man Overboard" situation on your vessel. The ship has been searched and there is one seaman missing? The vessel turns round and retraces the course back, calling for assistance from other vessels in the vicinity. What should be the

A - Determine when the seaman was last sighted and concentrate the search round the course line between the last sighting and presen position, taking into account any prevailing current.

OHFV The bridge wheelman has not reported for duty and there is a suspected "Man Overboard" situation on your vessel. The ship has been searched and there is one seaman missing? The vessel turns round and retraces the course back, calling for assistance from other vessels in the vicinity. What should be the

A Parallel System



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OHGM

The last meter of the vapor return line at the manifold should according to USCG be marked as follows :

- A** Painted red/yellow/red with the red bands 0.1 meter (0.33 feet) wide, and the middle yellow band 0.8 meter (2.64 feet) wide; and Labelled "VAPOR" in black letters at least 50 millimetres (2 inches) high.

OHGM

The last meter of the vapor return line at the manifold should according to USCG be marked as follows :

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OHNX

Which item among those below is included in the normal equipment of every liferaft ?

- A** three tin-openers and a pair of scissors

OHQF

Who shall check the ships medical supplies?

- A** A pharmacy authorised or accepted by the Norwegian Board of Health or, if no such pharmacy is available, the master and a doctor approved by a Norwegian Consulate shall perform inspection once every 12 months.

OHQH

What is the purpose of a maritime inquiry?

- A** To clarify circumstances and causes of an occurrence with particular reference to the seaworthiness of the ship and safety at sea.

OHSY

In maritime radio-communication by "low power" given by a nautical phone is meant a transmitting power of:

- A** 1,0 - 1,5 watt

OHTW

The VHF-band is in the frequency range:

- A** 30 - 300 MHz

OIBJ

On a dark night with a clear atmosphere, the outside manually controlled lamp of a liferaft is visible at minimum at a distance of:

- A** 2 miles

OIDU

What will happen if the charge air pressure drops?

- A** The performance of the engine is reduced noticeably

OIDW

What are the best operating conditions for the separator?

- A** Constant flow, clean probes and temperature below 60 Deg.C.

OIEQ

\*May liquid fuel, lubricating oil or other flammable oils be carried in a forepeak tank?

- A** No



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OIPL	What is the approximate content of oxygen in air?
A	21 %
OIXQ	The figures show a graphical symbol for a particular electronic component and a typical operating characteristic for the same component. Which component?
A	Triac
OIXQ	The figures show a graphical symbol for a particular electronic component and a typical working characteristic for the same component. Which component?
A	Triac
OJEL	The time indication 171906z means in maritime radio communication:
A	1906 hours UTC on the 17th of the month
OJEM	Does the Master sign on in section ALC 1a of the crew Agreement?
A	No he is exempt from signing
OJFG	What type of detergent is recommended to use to remove floor polish?
A	Alkaline detergent (strong).
OJHX	The prescribed test of an approved portable VHF radio set (portophone) must be done once a:
A	month
OJLA	On a ship installation it is preferable on vertical pumps to have shaft sealing at the pump upper only. For what reason?
A	All of the mentioned alternatives.
OJRA	The insulation resistance (IR) to earth of a new galley hot-plate is measured to be 30 Mohm. When three identical hot-plates are tested together their combined IR will be:
A	10 Mohm
OJRA	The insulation resistance (IR) to earth of a new galley hot-plate is measured to be 30 Mohm. When three identical hot-plates on the same supply are tested together their combined IR will be:
A	10 Mohm
OJRC	SOLAS requires that an Inert Gas system is capable of delivering inert gas with a maximum level of oxygen at any required rate of flow. What is that level?
A	5 %



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OJXP

At which point in the Separating System shown is the oil concentration of 15 PPM allowed?

A C

OKBI

If one wants to transmit a weather report with an Inmarsat-C terminal one should use the following address:

A 41

OKKG

Which one of the listed requirements regarding abandon ship drills do not correspond to present regulations? (SOLAS III/18.3.5 - 18.3.7)

A on ships on short international voyages, each lifeboat shall be launched and manouvered in the water at least every six months

OKMB

The starting air valve is fitted for the purpose of:

A Bringing the engine up to sufficient number of revolutions for combustion to take place and engine to run

OKUF

What is the procedure for use of the main engine room fire extinguishing system, e.g. Halon or CO2 system?

A Search the engine room, make sure all personnel is out. -Stop ventilation. -Close for all air access. -Upon approval of the Master, release the halon/CO2.

OKWV

The good operation working location, whether the NAVTEX is working properly or not, can be checked using:

A a testing program built in for this purpose

OLBD

During crude oil washing of No: 1C tank the duty deck officer reports that the oxygen reading in the tank is 9% . What should you do ?

A Stop the washing process and not resume until the oxygen content in the tank is below 8%.

OLHT

At least, how often shall life boats be launched with their assigned operating crew aboard and manoeuvred in the water according to SOLAS?

A Every three months.

OLKG

The ship is at anchorage. What is important to rise forward in daylight?

A Anchor ball

OLLX

Long distance communication in the HF-bands depends on:

A ionisation layers

OLNU

What is the deck water seal of the inert gas system`s purpose ?

A Prevents the backflow of inert gasses into nonhazardous areas



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OLNU	What is the deck water seal of the inert gas systems purpose ?
A	Prevents the backflow of inert gasses into nonhazardous areas
OLTI	Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:
A	fitted with water pockets of a highly visible colour and so designed as to fill to at least 60% of their capacity within 25 seconds of deployment
OLXQ	To which Act(s) do(es) the special provisions relating to the seafarers in the NIS Act chiefly relate?
A	The Act relating to hours of work and the Seamen's Act
OMCP	Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?
A	The tank shall be mechanically ventilated as long as there are people inside it.
OMDJ	What is the difference between a 2 stroke and a 4 stroke diesel engine ?
A	The camshaft rotates with half the RPM of the crankshaft on a 4 stroke engine.
OMGR	How many rocket parachute flares are carried in each liferaft with SOLAS B pack?
A	2
OMHQ	When the bunkering operation is concluded, and before we are disconnect the bunkering hose from the ships manifold, the most important operation is:
A	Blow the bunker hose to avoid oil spill when the hose is disconnected
OMIP	Which of the following letter combinations represents a temperature controller on a process and instrumentation diagram
A	TC
OMIP	Which of the following letter combinations represents a temperature controller on a process and instrumentation diagram?
A	TC
OMXQ	Which Merchant Shipping notices are required to be carried on board?
A	Only Merchant Shipping Notices (MSNs)
ONDK	What is the ventilation requirement for pump room and other spaces normally entered during cargo operations ?
A	Not less than 20 changes per hour.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ONFS

Why should there be checklists or work permits for hazardous operations?

- A** To make sure the job is done under controlled conditions

ONGT

Which of the following is not a system for broadcasting MSI?

- A** FLEETNET

ONHN

Which is the following parameters does an exposimeter measure?

- A** The percentage of the L.E.L. in the ambient air

ONJG

In case of a fire on the line in an oxyacetylene-line gas-welding equipment, what action should be taken?

- A** Close the valves on both bottles, first the acetylene and then the oxygen bottle

ONKB

Within territorial waters the use of transmitters is prohibited. In general this does not apply for:

- A** Inmarsat-C equipment

ONPW

\*Which of the following detailed explanations should be mentioned in the Training Manual ?

- A** How to release from launching appliances

ONQR

What kind of foot wear should be used when working on deck and in the engine room?

- A** Safety shoes or safety boots

ONUY

\*Is it compulsory for a cargo ship to be divided into main vertical zones?

- A** No it is not

OOAU

The physical size of a resistor is an indicator of its

- A** Power dissipation capability

OOAU

The physical size of a resistor is an indicator of what aspect of its specification?

- A** Power dissipation capability

OOAW

You are on duty on vessel "A" and to avoid collision in the described situation, how will you act?

- A** By giving the vessel a starboard turn



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OOHJ

What will you do if you are told to operate unknown mechanical equipment?

- A** Ask your superior for advice before attempting to operate it.

OOKQ

Who is responsible for the ship being adequately manned?

- A** The master and the shipowner are responsible for the adequate manning of the ship.

OOMJ

What kind of safety equipment should be in place in connection with a grinding wheel?

- A** Goggles and shield.

OOSW

Posters or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which of the following requirements do not have to be included according to present regulations? (SOLAS III/9)

- A** Give information on survival craft capacity

OOME

What is the function of the MAIB?

- A** Investigating accidents/incidents and making reports

OPNU

Which requirements must be considered when loading on weather deck?

- A** All the mentioned alternatives.

OPPO

What is the result of a "high metacentric height"?

- A** The vessel will roll violently?

OPQN

What is the difference between a THERMOSTAT and a TEMPERATURE TRANSMITTER, if any?

- A** The thermostat has one or more contacts (open or closed) depending on the temperature/setting. The temperature transmitter converts a temperature signal to an electric signal.

OPRI

How many pyrotechnic signals to be in each lifeboat marked SOLAS A PACK?

- A** 4 Rocket parachute / 6 hand flares / 2 buoyant smoke.

OPSV

Which organization or administration is responsible for surveys and inspections of ships, and the issue of Safety Certificates?

- A** Government Authorities of the Flag State

OPWD

What number of fire hoses is required for passenger ships? (SOLAS II-2/4.7.3)

- A** One hose for each fire hydrant



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OPWI

Which of the following spices comes from leaves?

A Oregano

OQHJ

The number of oscillations of a wave per seconds is called :

A Frequency

OQIC

At least how often shall rescue boats (MOB) be launched with their assigned crew and manouvered in the water?

A Every three months

OQJQ

The economizer is used for

A heat the feed-water

OQKO

What could be the reason to knocking in the engine?

A Fuel injection advanced too far due to incorrect preinjection angle.

OQLL

What is NOT a precaution to be taken when topping off?

A Notify the engine room of the procedure.

OQOS

At what minimum height above sea level a SART transponder must be mounted ?

A 1 metre

OQPL

Which one of the listed requirements regarding hydrostatic release unit for float free arrangements for liferafts does not correspond to present regulations? Hydrostatic release units shall:

A be provided with a painter system with a breaking strength of not more than 2.2 kN

OQUS

What is the maximum oil content in the sludge/ bilge water allowed to be pumped over board during a voyage?

A 30 litres pr. nautical mile

ORDD

How is the painter attached to the lifeboat released once the boat is waterborne and ready to leave?

A Cut it with the knife contained in the equipment locker

OREP

Is smoking permitted in the engine room? If yes; where?

A Smoking is only permitted in designated places.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ORFJ Which of these raw foodstuffs contributes to lowering the cholesterol content in the blood?

A Fat fish

ORHE What is the purpose of the relief valves fitted to the doors and casing of 2 stroke diesel engine crankcases?

A To relief pressure in a crankcase explosion

ORIW This circuit consists of two capacitors,  $C(1) = 6 \mu F$  and  $C(2) = 12 \mu F$ , in series. Calculate the equivalent  $C(S)$  of the two capacitors.

A  $C(S) = 4 \mu F$

ORIW This circuit consists of two capacitors,  $C(1) = 6 \mu F$  and  $C(2) = 12 \mu F$ , in series. Calculate the equivalent  $C(S)$  of the two capacitors.

A  $C(S) = 4 \mu F$

ORMA Which channel is used for VHF DSC distress calls

A 70

OROR For a DSC-connection (no 'distress alert') with another vessel the following frequencies are used:

A TX: 2177.0 kHzRX: 2177.0 kHz

ORXC The quantity of a cargo required to be carried in a type 1 ship should not exceed :

A 1250 m<sup>3</sup>

OSAI If, during a discharging, a breakdown appears on the inert gas plant, resulting that no inert gas is available to replace the discharging cargo. What will you do?

A Immediately stop the discharging.

OSAK Give the meaning of the following symbol

A Portable fire extinguisher

OSDQ Who is authorised to operate lifting equipment around the ship?

A Personnel authorized by the master?

OSDY What do you understand by the expression Master Controller

A The primary controller in a cascade control system



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OSDY

What do you understand by the expression Master Controller?

**A** The primary controller in a cascade control system

OSER

For a Purifier and Clarifier System should the oil be passed first through the purifier?

**A** Yes.

OSFJ

Which item among those below is included in the normal equipment of every liferaft ?

**A** two sea-anchors, one being spare

OSFK

What kind of cleaning product would you use to remove burnt food remains?

**A** Strong alkaline solution.

OSIO

Which class of emission is used for VHF DSC transmissions ?

**A** F1B

OSKG

A large vessel develops a sudden sheer when it stops moving through the water, having been steaming through a shallow water channel for several miles. The sheer may be strong and unexpected and is due to what reason?

**A** - The large volume of water dragged behind the vessel continues to move forward and cause a strong turning moment on the stern of vessel

OSNR

How will you act if you are helmsman and after making a turn to port you receive the order: "Steady as she goes"

**A** Read off the compass and keep her steady on the course

OSPJ

Is there any demands regarding double bottom for large passenger ferry and cruiseship.

**A** Yes, in ship of 76 m in length and longer, a double bottom shall be fitted midship, and extend to the fore and after peak bulkheads, or as near as practicable.

OSTK

How should the hook be released from a davit lowered liferaft?

**A** Just prior to reaching the water, the lanyard should be pulled. This sets the hook which will automatically release once the raft is waterborne

OTAE

There are two main methods used to remove dirt, which?

**A** Mechanical and chemical.

OTDK

What is the meaning of this symbol ?

**A** Release gripes



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OTFG

Where do you find minimum drill requirements?

A In the SOLAS convention.

OTGX

For the connection between VHF and antenna must be used:

A a coax cable of proper impedance

OTQA

What is the mathematical relationship between temperature and density?

A Higher temperature leads to lower literweight.

OTTM

\*Generally speaking, what is the value commonly recognised as the maximum concentration of CO allowed in the breathing air of a breathing apparatus?

A 20ppm

OTUG

You have just discharged a Category "A" chemical cargo and are making the first wash of the tank that had contained it. The washing contain a chemical residual concentration of over 0.1% by weight. You can:

A Discharge the washing to shore reception facilities only?

OTUI

In a low pressure auxiliary boiler, if after testing the water, You found the P. alkalinity to be 50 PPM CaCO<sub>3</sub>, what action would You take?

A Increase dosage.

OTYF

A ship is being overtaken by another ship while proceeding along a river. What should be the required procedure?

A The bow may be sucked against, and the stern may be pushed away from the other ship as you pass

OULD

The PTT-switch must be:

A pressed in during speaking only to work semi-duplex

OUMN

During operation: What is one of the most important differences between a centrifugal pump and a piston pump?

A It is easier to damage a centrifugal pump than a piston pump if they run dry.

OUOE

The figures show a graphical symbol for a particular electronic component and a typical operating characteristic for the same. Which component?

A Transistor

OUOE

The figures show a graphical symbol for a particular electronic component and a typical working characteristic for the same. Which component?

A Transistor



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OUOJ

Dish aerials are used with:

**A** Inmarsat -B and -M

OURT

Whats the USCG requirements for a Vapor connection on board ?

**A** Each vessel vapor connection flange must have a permanently attached 0.5 inch diameter stud at least 1.0 inch long projecting outward from the flange face. The stud must be located at the top of the flange, midway between bolt holes, and in line with the bolt hole pattern.

OV DG

What is the minimum number of immersion suits that are required to be provided for each open lifeboat under SOLAS rules?

**A** 3

OVHR

Shock is a manifestation of changes in which the circulation fails because either pressure or volume of circulating blood has fallen to a dangerous level. What is the skin colour of a pasient in shock?

**A** Pale or grey.

OVHR

Shock is a manifestation of changes in which the circulation fails because either pressure or volume of circulating blood has fallen to a dangerous level. What is the skin colour of a patient in shock?

**A** Pale or grey.

OVKD

Before you close the main gatevalve at the ships bunkering manifold, you should notify:

**A** The officer in charge at the barge or the foreman in charge if it is at a shore facility

OVKW

If you alter the field excitation voltage of one alternator operating in parallel, this will cause change in that alternators:

**A** Reactive load (kVAR)

OVKY

The maximum cylinder pressure is lower than normal due to:

**A** Fuel oil with poor combustion properties.

OV LW

What is an analogous signal?

**A** A variable electric signal.

OVQS

Which radio frequency/channels are reserved for emergency communication?

**A** 2182 kHz/VHF channel 16

OVRL

What is the purpose of section ALC 6 in the Crew Agreement?

**A** Copy of crew agreement posted in a conspicuous place giving details of relevant information and contractual clauses as per ALC 1d



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OVRM

How many emergency power supply sources are required for fire-detection and fire-alarm systems?  
(SOLAS II-2/13.1.3)

A One

OVSH

Where on board would you find out which fire sections are enclosed by "A" or "B" class divisions?

A On the fire control plan

OVUT

What kind of cleaning product would you use to remove skin fat and toilet soap in showers/bathrooms?

A Neutral to alkaline solution.

OVUY

The command of radio communication with inter-ship traffic is with:

A the calling station

OVVR

On which international instrument, if any, are the regulations on employment agreement and settlement of wages based?

A On ILO 22

OWAU

What material should boiler suits be made of?

A Cotton

OWBR

If the water goes out of sight in the gauge glass, the first thing to do is

A Secure all burners

OWDI

Give the meaning of the following symbol

A Survival craft distress pyrotechnic signals

OWFT

Which of air and water is the fluid that transfers the greatest amount of heat during the same time, given that the fluid is not flowing along the immersed body?

A water

OWFX

You are approaching a port when you see three lights in a vertical line. The upper and lower are green and the middle white. What does this mean?

A A vessel may proceed only when it has received specific orders to do so

OWGL

Which of the following fruits should you use first?

A Grapes





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OWGN

Overshoot

**A** It is how many degrees a ship continues to turn after you apply counter-rudder

OWGN

Overshoot

**A** It is how many degrees a ship continues to turn after you apply counter-rudder

OWLM

\*Which of the following spaces is a "special category space"?

**A** A garage tweendeck on a passenger ferry

OWLQ

A PH scale (meter or strip of paper) has values from 0 to 14, which values has alkaline?

**A** 41821

OWOE

If a boiler is smoking "white smoke" a possible cause can be

**A** Too much combustion air

OWQM

While navigating using a paper chart marked WGS84 the OOW plots the ships position by four different methods and they all give slightly different positions. Which of the following would be considered the most accurate.

**A** - Gyro compass bearings from two lighthouses

OWQM

While navigating using a paper chart marked WGS84 the OOW plots the ships position by four different methods and they all give slightly different positions. Which of the following would be considered the most accurate.

**A** Most attacks take place in territorial waters

OWRH

You are going to be at sea for 30 days with a crew of 30 men. How many eggs would you buy?

**A** 2000

OWWM

Which of these procedures should crew follow when conducting a search?

**A** "Stand quietly in various spots around the space, listening for unusual sounds like the tick tock of a clock mechanism."

OXAN

What sound signal shall be used on ships whistle when man-over-board?

**A** 3 long blasts repeatedly

OXAN

What sound signal shall be used on ships whistle when there is a man overboard?

**A** 3 long blasts repeatedly



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- OXAS** During standstill liquid may condense in the crankcase or oil separator. Why is it important to heat up the oil before start?
- A** To avoid the compressor-oil to disappear from the crankcase during starting.
- 
- OXET** Which month is the season for strawberries in South Africa?
- A** December
- 
- OXFU** Radio direction-finding installations shall comply with certain requirements. Which one of the listed requirements do not correspond to present regulations?
- A** Direction-finders to be installed on, or as near the navigating bridge as possible
- 
- OXKW** If a coast-station doesn't answer a call on VHF working channel or doesn't send a reply signal:
- A** you must call on another working channel
- 
- OXLR** An excessive pressure drop across a lube oil strainer could indicate:
- A** That the strainer needs cleaning.
- 
- OXVX** What is the cargo owners main issue by requesting tankers to exercise COW?
- A** To maximize discharge outturn?
- 
- OYAM** If your vessel is equipped with high velocity venting valves, at what minimum height above the weather deck or catwalk should they be installed?
- A** 3 meters
- 
- OYAM** If your vessel is equipped with high velocity venting valves, what should be the minimum distance from weather deck/cat walk ?
- A** 3 meters
- 
- OYMC** What is a "Oxygen Dependent" inhibitor ?
- A** It's a product added into a cargo in order to keep the cargo stable. This cargo should never be blanked with nitrogen because the inhibitor needs oxygen to be effective.
- 
- OYTW** When loading cargo, once it has been established that cargo is entering the correct tank and line integrity is OK, loading rates should be increased to:
- A** Match the size and capacity of the ship's loading line, venting system and static generation hazard limitation, if any?
- 
- OYTX** Where should a sample for boiler water test purposes be taken from?
- A** From the water space.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

OYXH

What will happen if a centrifugal pump is fitted without a non-return valve on the delivery side?

- A** It will give full back flow at the time the pump stops.

OYYQ

\*Food rations provided to each person the liferaft is permitted to accommodate is totalling:

- A** 10 000 kJ/person

PANF

A pan on the galley stove containing oil catches fire, which of the following should NOT be used on this type of fire?

- A** Use water extinguisher to put out the fire.

PAOY

What is the normal name of the waterproof suit shown in the picture?

- A** He is to help the other crew members and fetch more Vaseline from the storage room if they run short

PAQS

During routine checking of alarm functions of main and auxiliary equipment, some setpoints are canceled due to a mistake. What is the appropriate routine to ensure correct setpoints are set?

- A** Consult with the instruction manual for the equipment in question for correct values.

PAQS

During routine checking of alarm functions of main and auxiliary equipment, some setpoints are canceled due to a mistake. What will be the appropriate routine to ensure correct setpoints are set?

- A** Consult with the instruction manual for the equipment in question for correct values.

PAQS

During routine checking of alarm functions of main and auxiliary equipment, some setpoints are cancelled due to a mistake. What is the appropriate routine to ensure correct setpoints are set?

- A** Consult with the instruction manual for the equipment in question for correct values.

PAQV

What kind of safety equipment must be worn during anchoring?

- A** All of the mentioned equipment.

PAUY

On area A3 the function " Transmission and reception of signals for locating " is mainly based on:

- A** the use of SART transponders

PBHG

A

- A** 60 minutes

PBIF

What is a "Rescue Sub-Centre" (RSC)?

- A** A unit subordinate to a rescue co-ordinating centre



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PBKR

What is the meaning of "remote mode" related to a slave controller

- A** The slave controller receives the set-point from the output signal of the master controller

PBKR

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PBKT

You are Sen.Off.Deck on vessel "A" and your cargo is iron ore. The vessel is in narrow waters and you have been in a collision with vessel "B" causing your vessel to take in water. How will you act to save the vessel and the cargo?

- A** Navigate the vessel on ground as soon as possible

PBKT

You are Sen.Off.Deck on vessel "A" and your cargo is iron ore. The vessel is in narrow waters and you have been in a collision with vessel "B" causing your vessel to take in water. How will you act to save the vessel and the cargo?

- A** - Put the ship aground on a soft sandy bottom as soon as possible

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You are Sen.Off.Deck on vessel "A" and your cargo is iron ore. The vessel is in narrow waters. You have been in collision with vessel "B" and your vessel is taking in water. How will you act to save the vessel and the cargo?

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- A** - Put the ship aground on a soft sandy bottom as soon as possible

PBQI

The ID of an Inmarsat M station on board starts with:

- A** 6

PBRK

Which one of the listed requirements regarding buoyant smoke signals do not correspond to present regulations? The buoyant smoke signal shall:

- A** give a bright red light during the entire emission time

PBTW

\*The steps of the embarkation ladder used must be spaced apart by a distance of:

- A** equally spaced, not less than 300 mm or more than 380 mm

PBVP

Which of the following options would be the cause of a low exhaust temperature in one cylinder of a diesel engine?

- A** Any of the others.

PBVP

Which of the following options would be the cause of a low exhaust temperature in one cylinder of a diesel engine?

- A** Faulty fuel injection valve.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PCCF** You have made a turning circle at full speed in deep water. You are now going to make one with initial speed, slow ahead. Do you think the diameter will differ from that of initial full ahead?
- A** - No, the diameter of the turning circle would be almost the same.
- 
- PCCF** You have made a turning circle at full speed in deep water. You are now going to make one with initial speed, slow ahead. Do you think the diameter will differ from that of initial full ahead?
- A** The diameter will be the same whatever initial speed we have when starting the turn
- 
- PCHA** In which ships shall fire hoses be connected to hydrants in interior locations at all times? (SOLAS II-2/4.7.1)
- A** Passenger ships carrying more than 36 passengers
- 
- PCHF** Which of the following food groups contains the most energy per 100 grams?
- A** Fats
- 
- PCHH** Which of the following instruments is normally part of a control-loop
- A** Transducer
- 
- PCHH** Which of the following instruments is normally part of a control-loop?
- A** Transducer
- 
- PCIV** Which type of call will be sent by a ship in danger of capsizing and needing assistance from all vessels in her vicinity ?
- A** Distress call
- 
- PCJS** Using a wide mop on polished floors is considered better than using brush and cloth. Why?
- A** The floor surface becomes cleaner.
- 
- PCJU** For carbon dioxide fire-fighting systems for machinery spaces the fixed piping system shall be such that: (SOLAS II-2/5.2.4)
- A** 85% of the gas can be discharged into the space within two minutes
- 
- PCOU** What will you do if you are told to operate unknown mechanical equipment?
- A** Seek advice from your superior before attempting to operate it.
- 
- PCVI** Which class of fire involves gas?
- A** Class C fire



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- PDJX**                      What is the minimum number of immersion suits that are required to be provided for each open lifeboat under SOLAS rules?
- A**    3
- 
- PDPR**                      How often must routine inspections of the crew accommodation take place
- A**    Weekly
- 
- PDWB**                      A ship has an electrical system rated at 690 Volts. Which voltage level is this?
- A**    Low voltage.
- 
- PEIT**                      Which of these weapons are widely available and commonly used by criminals and terrorists to further their aims?
- A**    Gun
- 
- PETM**                      With a "good" GPS satellite position fix it is possible to achieve an accuracy of:
- A**    20 - 100 meters.
- 
- PETN**                      The purpose of the surface blow valve
- A**    remove any oil or scum on water surface
- 
- PEUL**                      Select, from the options given, the one most likely to result in a sudden reduction in main diesel engine operating speed during normal operation.
- A**    Fuel oil pipes or filters are clogged.
- 
- PEVX**                      How much water would you allow per person as officer in charge of the lifeboat, following an abandon ship operation?
- A**    Nothing for the first 24 hours, then 1/2 litre per day (more in the tropics)
- 
- PEWY**                      Which item among those below is included in the normal equipment of every liferaft ?
- A**    instructions for immediate action
- 
- PFDR**                      A burn may occur when electricity of high current and voltage passes through the body. Most damage occurs at the points of entry and exit of electricity. What is the treatment of electrical burns?
- A**    Place sterile dressing over the burn and secure with a bandage.
- 
- PFDT**                      In terms of an oil tanker fitted with two slop tanks, how are they commonly referred to?
- A**    Primary and secondary slop tank.
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PFKA** The fire control plan on board is called the safety plan and shall be posted onboard. In port, a copy of this plan shall in addition be available from somewhere else. Where must this copy be available?
- A** At the gangway.
- 
- PFKF** Why is an inertgas system required when COW is undertaken?
- A** Safety purpose?
- 
- PFNQ** When a licensed mariphone is replaced:
- A** the old mariphone must be checked out and the new one must be checked in
- 
- PFNU** In a smoke filled alleyway, where will the cleanest air be found, and how should you proceed out?
- A** Near to the deck, crawl out keeping your face as near to the deck as possible
- 
- PFOM** How often should oxygen valves, tools etc be oiled or greased?
- A** Never.
- 
- PFPG** Which of these foods, when consumed in high quantities, will increase the cholesterol level over time?
- A** Pork
- 
- PFRD** What is the secondary purpose of a radio installation onboard?
- A** To take part in public traffic
- 
- PFXR** A pressure gauge of the bourdon tube type is reading incorrectly and shows 2 bar when the pressure in the system is zero. There is no spare available. Which of the options would be the best temporary remedy for this situation?
- A** Use a deadweight tester to mark a new scale on the gauge throughout the working range.
- 
- PGFF** In a low pressure auxiliary boiler, if after testing the water You found the P. alkalinity to be 450 PPM CaCo3, what action would You take?
- A** Blow down boiler and reduce dosage.
- 
- PGHS** Most cases of oil pollution are caused by human errors, often jointly by seafarers and shore based clean-up teams. What has proved to be the essential mistake executed by the shore people regarding environment damages?
- A** Dispersement of chemicals?
- 
- PGHU** You will be serving a four-course dinner consisting of soup, sweet, main dish of meat and main dish of fish. When would you serve the fish?
- A** As the second course.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PGII

The operating mode of a pyrotechnic signal depends essentially on:

- A** instructions or diagrams printed on its casing by the manufacturer

PGIK

What is the requirement as regards stopping arrangements for power ventilation of accommodation spaces, cargo compartments, machinery spaces, service spaces and control stations?

- A** Ventilation must be capable of being stopped from an easily accessible position outside the space being served

PGKC

You are on ship A. What would you do before meeting ship B?

- A** Stop the engine before meeting, and apply engine during meeting

PGNP

If you have a nozzle with 10 holes, how many clogged holes can you accept ?

- A** 0

PGSL

One cylinder of a diesel engine has to be cut out to allow continued operation of the engine. Which of the following options may be the cause of the problem?

- A** Injection pump failure.

PGXN

Before commencing ballasting for departure, the cargo tanks are surveyed. The small amounts of cargo left in the cargo tanks are called ROB. What does this mean?

- A** Remaining on board.

PGXN

Before commencing ballasting for departure, the cargo tanks are surveyed. The small amounts of cargo left in the cargo tanks are referred to as "ROB". What does this abbreviation mean?

- A** Remaining on board.

PGXQ

What is the main purpose of bottom-blowing a boiler?

- A** To get rid of sludge in the water chamber.

PHEI

You are going to grind (mince) meat for use in different dishes, including burgers. Which of the following cuts of meat would you use?

- A** Silverside

PHEK

What type of search pattern is recommended in the IAMSAR Manual as most effective when the location of the search object is known within relatively close limits?

- A** - Expanding Square Search..

PHFB

What is the purpose of pressure-vacuum relief valves?

- A** To maintain a tank at atmospheric or overpressure.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PHGS** Some engine manufacturers recommend that washing of the compressor side is not carried out. Is this due to:
- A** Greasy sludge from the compressor sticking between the fins in the air coolers, necessitating extra cleaning of these.
- 
- PHLT** With an Inmarsat-C terminal the option 'PSTN' for addressing is available. This option:
- A** to deliver a message by telephone via a modem on the computer of the subscriber
- 
- PHOE** In the radio telex-traffic the landline-connection with a subscriber ashore will be broken with the following command:
- A** Kkkk
- 
- PHOE** In the radio telex-traffic the landline-connection with a subscriber ashore will be broken with the following command:
- A** Kkkk
- 
- PHPE** An immersion suit is:
- A** not allowing undue ingress of water after a jump from a height of not less than 4,5 m into the water
- 
- PIAV** Ethylene gas is associated with a particular food process. What is it?
- A** Ethylene is the gas produced by most fruits and vegetables during the ripening process
- 
- PIBQ** When may a call for radio medical advice be preceded by the urgency-signal:
- A** in urgent cases
- 
- PIIA** Which type of piston compressor is most common as a cargo compressor?
- A** It is double acting oil free piston compressors
- 
- PITC** What would the results of a TAN test, carried out on lubricating oil samples from a diesel engine, indicate?
- A** Total content of organic and inorganic acids in the oil.
- 
- PIUV** According to the "Regulation and Restrictions" of the mariphone license, the mariphone:
- A** may only be present at the place, as indicated in the license
- 
- PIWK** During a ship to ship cargo transfer operation it is required that:
- A** An efficient engine room watch with the main engine on standby be maintained.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PJCN** As per the legislation in question, a copy of the provisions, as you know, shall generally speaking be accessible to the crew. Does this apply as well as to a collective wage agreement?
- A** Yes, if an employment agreement refers to the collective wage agreement
- 
- PJEU** With help of DSC a ship wants to contact a coast-station to have a question for telephone call. One has to choose from the following DSC-frequencies
- A** TX: 8415.0 kHzRX: 8436.5 kHz
- 
- PJKV** What entries need to be made in the Official Log book in relation to a death on board?
- A** Section on Births and Deaths to be completed, and entries made in Official Log Book detailing circumstances of the death and actions taken on board.  
Deceased is signed off the crew agreement in his absence
- 
- PJQQ** What refrigerant temperature would you expect at the freon compressor discharge of a cascade system?
- A** + 85° C
- 
- PJRQ** When tank cleaning after discharging a cargo of polymerising products (such as styrene monomer), you would, in order to avoid deposits of polymerised material:
- A** Pre-wash the tanks with cold water first?
- 
- PJSY** Who shall submit a request for trade certificate for a NIS cargo vessel of less than 500 gross tons?
- A** Owner or master
- 
- PJTD** When starting cargo compressors they should be:
- A** Unloaded.
- 
- PJTT** What is the reason to charge air pressure drops?
- A** Exhaust gas boiler fouled.
- 
- PJUX** Who should be informed first when receiving a distress signal from an other ship/vessel?
- A** - Increase the officers on the bridge to allow greater use of visual navigation
- 
- PJUX** Who should be informed first when receiving a distress signal from an other ship/vessel?
- A** The nearest coastal radio station
- 
- PJUX** Who should be informed first when receiving a distress signal from another ship/vessel?
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**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PJUX** Who should be informed first when receiving a distress signal from another ship/vessel?
- A** The nearest coastal radio station
- 
- PKFN** What is the maximum filling limit on cargo tanks on gas carriers?
- A** Maximum filling limit of cargo tanks on gas carriers is 98% if the liquid temperature is equal to safety valve reference temperature
- 
- PKKU** Problems are encountered getting suction on the ballast pump, a centrifugal pump mounted above the tank top, while trying to deballast a double bottom tank. What action can be taken to solve the problem?
- A** Feed the pump from the sea water inlet pipe.
- 
- PKPS** Why is it important to check the timing of diesel engine cylinder oil lubricators?
- A** To ensure cylinder lubricating oil enters the cylinders when the piston is in the required
- 
- PKPS** Why is it important to check the timing of diesel engine cylinder oil lubricators?
- A** To get the oil into the cylinder when the piston is in the right position.
- 
- PKRF** To discharge the last amount of cargo ashore, the stripping pump through the small diameter line is used. Where does this small diameter line come from in the pump room and where is the line ending at the manifold?
- A** From the stripping pump's delivery side directly to the manifold's presentation flange.
- 
- PKSA** \*Give the meaning of the following symbol
- A** Start air supply
- 
- PKUQ** The MID is:
- A** a number which indicates the nationality of the ship
- 
- PKUT** Squelch mode serves to suppress:
- A** background noise in receiving a weak FM-signal
- 
- PLDX** Why is it necessary to have routine testing of the cooling water?
- A** To check that the correct concentration of corrosion inhibitors are maintained.
- 
- PLDX** Why is it necessary to have routine testing of the cooling water?
- A** To ensure that the proper residuals of treatment chemicals, as specified, are maintained all time.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PLEV

What is the main purpose of a heat exchanger in the cooling water system?

**A** Transfer heat from one fluid to another

PLMY

An inflatable liferaft accommodating 6 persons is fitted with:

**A** 1 entrance fitted with a semi-rigid boarding ramp

PLOS

If the Radar scanners of one vessel are in the same horizontal plane as the cargo deck of the other during transfer operations, which type of radar emissions would pose a greater danger of the induced ignition of flammable vapours?

**A** a 10 cm radar.

PLOX

Identification of a ship station is amongst others done by an:

**A** MMSI-number

PLRF

Does the nationality of the shipowning company have any importance in general to the application of Norwegian law on NIS ships?

**A** No.

PLVK

\*A bulkhead of the "A" class must:

**A** Comply with all the requirements listed here

PMBF

What should NOT be given to a patient suffering from diarrhea?

**A** Milk

PMCW

What is principally to be done when they arrive in Rotterdam?

**A** They have to bunker fuel oil and diesel oil

PMCX

\*The correct order of actions to be taken in a fire emergency, should be...

**A** Evaluation of the situation, rescue and life-saving, confinement of fire, extinction, then feed back on the emergency

PMCY

Generator 1 and 2 are working in parallel. Prime-mover 2 suffers a total fuel loss. The likely outcome is:

**A** No.2 generator trips on reverse power

PMFR

Which of the following is a traditional Norwegian Christmas dinner?

**A** Salted and dried rack of mutton, mashed swedes, boiled potatoes.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PMOS

The steam that is discharged from the safety valves goes to the

**A** atmospheric line

PNAE

You are in charge of discharging and crude oil washing. What is the maximum allowed oxygen level measured in the middle of the ullage space in a tank during crude oil washing? (IMO Reg)

**A** 8 %

PNAF

What advice would a harbour pilot give the Master?

**A** To single up to one line and spring forward

PNBY

What do international and national maritime authorities say about passenger list?

**A** All personnel onboard (crew and passengers) must be registered to keep a track of number of people onboard.

PNON

How many hand held distress flares are carried in each liferaft?

**A** 6

PNSN

A mechanical seal, consisting of carbon and ceramic seal rings, is to be fitted to a centrifugal pump shaft. What is the most likely result of not being extremely careful when fitting this type of seal?

**A** The seal rings are brittle and can be easily chipped or damaged

PNUJ

Which one of the listed requirements regarding the stowage of lifeboats and life-rafts corresponds to present SOLAS regulations?

**A** Lifeboats shall be stowed attached to launching appliances.

PNWR

If there is an accidental discharge of oil from a tanker, which of these items will NOT have to be noted in the Oil Record Book ?

**A** The name of the person responsible for the oil discharge

PNYN

A distress-call received via RCC should:

**A** be given no receipt indubitably too distant from the distress-case

POAD

What is the purpose of explosimeters?

**A** Measure the amount of explosive gases in % of LEL.

POAH

How can the ship's master prove that a vessel is British?

**A** By showing the ship's register



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PODI Notification logging procedures .(OPA-90)

A Every report or message must be logged including time and date

PODJ What can lead to "Unlimited responsibility" (OPA-90)

A Wilful misconduct, gross negligence and violation of Federal Safety

POEH What is SELFEC:

A a one-sided transmission

POJH What class of fire involves liquids?

A Class B fire

POLB You have abandoned ship in a liferaft. Which of the following actions should you take?

A Organize a lookout system and join up with other survival craft if possible. You should also stream the sea anchor

POLU When fighting fire, why shall you never pour water into hot fat?

A The water will explode into steam causing hot fat to be thrown far away thus possibly causing severe burns or fire.

POPC The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

A The method and use of sea-anchors (drogues)

POSK What are class "C" bulkheads?

A Bulkheads constructed of approved non-combustible materials but do not meet any of the requirements relative to smoke and flame nor limitations relative to temperature rise.

POSP How often shall a survey for renewal of cargo ship safety construction certificate be carried out?

A Every fifth year with a periodical survey every 12. month.

POUC The boiler have been shut down completely for inspection and repair. You have finished work and are going to start firing the boiler. What is the correct procedure for heating a boiler from cold?

A Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals.

POVA In some cases we can see that a resistor is connected over an alarm contact (see diagram). Why is this connection used?

A To monitor the cable/wires for break.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

POVX

Why are you only allowed to load maximum 98% of the tank capacity?

A Due to temperature expansion

POVX

Why are you only allowed to load maximum 98% of the tank capacity?

A Due to temperature expansion.

POWT

Give the meaning of the following symbol:

A lifejacket

PPNJ

\*In accommodation spaces, where must smoke detectors be located?

A In stairways, corridors and escape routes

PPNK

Two synthetic fibre lines of the same size and material are run out and pretensioned at the berth. However one line (line A) is secured to a shore bollard twice as far as the other line (line B). If a sudden increase in wind now causes an extra load to come on the lines, the extra load will be shared by the lines

A A will take 1/3 of the extra load. B will take 2/3 of the extra load

PPOI

You have a cylinder liner with 6 outlet holes for cylinder lubrication, how many clogged holes can you accept ?

A 0

PPTF

What ships does GMDSS apply to?

A All ships covered by Chapter IV of SOLAS I.e. all cargo ships of 300GRT and above and all passenger ships on International voyages

PPYD

Inmarsat Telex Service code '31' can be used:

A to ask for 'maritime inquiries

PQBN

What method shall be used when hauling survivors out of the sea (state of survivors is critical)?

A Using nets

PQFE

The Master has decided to single up to a spring line at each end as the last lines to let go whilst unmooring. Which of the following methods should be used to hold the lines, whilst waiting for the order to let go?

A By turning up the rope on the bitts, fig. 1

PQFU

Give the meaning of the following symbol

A B class fire door self closing



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**PQIJ** Approaching the shore in a lifeboat you see a person holding a white flag which he moves in a vertical motion. What does this indicate?

**A** This is the best place to land

**PQNK** Which one of the listed requirements regarding rescue boat equipment do not correspond to present regulations? The normal equipment of every rescue boat shall include:

**A** immersion suits for the number of persons the boat is permitted to accommodate

**PQOV** Give the meaning of the following symbol:

**A** lifeboat

**PQPC** Describe the process of registering a ship which has just been delivered from the builders

**A** Owners submits delivery certificate and proof of eligibility, RSS send Carving note, vessel is "Carved", completed carving note returned to RSS, RSS issue Register

**PRBR** When we are measuring flow of fluids with a fixed area flow meter, the name of the sensing device is:

**A** Orifice plate

**PRBR** When we are measuring flow of fluids with a fixed area flow meter, the name of the sensing device is?

**A** Orifice plate

**PRDJ** You are planning the discharge of a crude oil tanker with segregated ballast tanks. It is anticipated that when the vessel leaves port, she will encounter bad weather. Which of the cargo tanks should be crude oil washed as a priority?

**A** The dedicated heavy weather ballast tank

**PRDJ** You are planning the discharge of a crude oil tanker with segregated ballast tanks, SBT. Which of the cargo tanks should be crude oil washed if you are expecting heavy weather?

**A** The dedicated heavy weather ballast tank

**PRDY** What does the Chief Officer want the 1st Engineer to do?

**A** The Chief Officer wants the 1st Engineer to empty the starboard bilge in hold No. 5

**PREC** Which mineral is essential for building and maintaining bones and teeth?

**A** Calcium

**PREC** Which mineral is essential for building and maintaining strong bones and teeth?

**A** Calcium





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PREE

A coast radio station for sea area A2 has:

**A** not always radiotelex

PRHG

Which of the following systems will include a D/P transmitter in the control-loop

**A** Pressure

PRJE

Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers?

**A** ensuring that a supply of blankets is taken to the survival craft

PROF

On board they want to make a DSC-call with a foreign coast-station. It is an urgent call. Preferably choose:

**A** The national DSC-call frequencies of the coast-station concerned

PRQS

What is necessary protection when you are rust chipping with air tools?

**A** Protective clothing, safety shoes, gloves, goggles, earmuffs.

PRRL

In which ways is heat transmitted?

**A** Conduction, convection and radiation

PSEX

Which of the following actions should NOT be attempted on an electrical fire?

**A** Water extinguisher.

PSIB

What is understood by carrier frequency:

**A** the frequency actually used by transmitter and receiver

PSNB

If the high PPM alarm is actuated on an automatic O.W.S. What should happen?

**A** Overboard discharge is stopped.

PSUV

When a fire breaks out in the accommodation, cargo holds or on deck, who is in charge of the fire fighting operations?

**A** The Chief Officer

PSXB

Give the meaning of the following symbol

**A** Rocket parachute flares



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PSYS** The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?
- A** Use of breathing apparatus
- 
- PTDV** The transmitting power of the mariphone is adjusted by setting:
- A** high/low power
- 
- PTEU** What statement is correct with frequency modulation?
- A** frequency modulation is often applied in the maritime VHF-range (band)
- 
- PTFK** Why are zinc anodes sometimes fitted in the seawater side of heat exchangers?
- A** Protect against corrosion
- 
- PTIX** Which one of the listed requirements regarding the launching and recovery arrangements for survival crafts do not correspond to present regulations? (SOLAS III/15)
- A** Only one type of launching and recovery arrangements shall be used for similar survival crafts onboard the ship
- 
- PTNV** Which of the following is a INMARSAT C Mobile Earth Station Identification Number (IMN)?
- A** 422753810
- 
- PTQH** You are going to serve boiled potatoes for dinner at 5:30 pm (17:30). At what time should you have the potatoes ready?
- A** 5:20 pm (17:20)
- 
- PTQH** You are going to serve boiled potatoes for dinner at 5:30 pm (17:30). What time should you have the potatoes ready?
- A** 5:20 pm (17:20)
- 
- PTQI** What is a "Search and Rescue Region" (SRR)?
- A** An area of defined dimensions within which search and rescue services are provided
- 
- PTRD** A class "D" fire involves what type of material?
- A** Metals
- 
- PTTS** We have a problem with surging in the turbocharger. Which of the following could be the cause?
- A** Dirty scavenging air cooler on the air side.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PTUO

Who is responsible for testing and certification of all cargo hoses.

**A** Ship's captain

PTWE

In the diagram below we want to verify the resistance of the PT100 sensor fitted with compensation. What is the correct calculation?

**A**  $R(Pt100) = R1 - R2$

PTWE

In the diagram below we want to verify the resistance of the PT100 sensor. What is the correct calculation?

**A**  $R(Pt100) = R1 - R2$

PUBC

Who is responsible for the storage and use of substances injurious to health on board?

**A** The shipping company and the master

PUHC

What will You do if the purifier starts to vibrate, or has heavy vibrations?

**A** Stop the purifier immediately. Check the bowl for heavy side, deposits, bearings, housing, and the spindle for damage.

PUPO

What is correct UTC in this example? Approx. Pos: N49°51 W35°23, zone +2, Local Time 0900.

**A** 11 00

PUQJ

When you are taking out provisions for the next day, you notice that the temperature in the meat freezer is only -8° C. How would you react to such a situation?

**A** Report it immediately to the chief engineer

PUSR

What shall you do if you see a person falling into the sea?

**A** Throw a lifebuoy over board and report to the bridge immediately

PUSR

What shall you do if you see a person falling into the sea?

**A** Throw a lifebuoy over board and report to the bridge immediately.

PUUL

Which type of call will be sent by a ship adrift and needing the assistance of a tug ? (The weather is not bad and the ship will be aground 24 hours later)

**A** Urgent call

PVGY

When describing Crude Oil Washing on an oil tanker, what name is given to areas within a cargo tank that are not directly impinged, or hit by the stream from tank washing machines?

**A** Enables sludge to be discharged directly to shore tanks



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PVGY** When describing Crude Oil Washing on an oil tanker, what name is given to areas within a cargo tank that are not directly impinged, or struck, by the stream from tank washing machines?
- A** Enables sludge to be discharged directly to shore tanks
- 
- PVHA** Give the meaning of the following symbol
- A** Manually operated call point
- 
- PVIR** Worn piston rings are allowing piston blow-by on a 2-stroke main diesel engine cylinder, but due to the circumstances, it is not possible to stop and do a piston overhaul. What is the correct action to take?
- A** Reduce speed temporarily and increase cylinder oil consumption.
- 
- PVSS** Describe the process to be followed when a seaman is to be disciplined for a lesser misdemeanour under the Disciplinary Code
- A** At the first occurrence he would be given an informal warning, if the offence occurs again, this may lead to a formal warning
- 
- PWDQ** At which of the pressures shown should the low suction pressure trip operate on a freon compressor?
- A** +2 bar
- 
- PWEN** Operator connected R/T calls are charged
- A** on the basis of a three minute minimum charge with one minute incremental steps
- 
- PWKH** The sound level of the telephone in the tele-microphone is adjusted on the panel of i.g. an MF/HF radiotelephony installation with:
- A** can not be adjusted, this is set by the manufacturer
- 
- PWOI** A distress alert on board may only be transmitted on explicit order of:
- A** the captain
- 
- PWPD** What is recommended for general cleaning (removing of fingerprints, soot and dirt) and daily cleaning of polished floors?
- A** Neutral cleaners.
- 
- PWUB** What can be the reason that we are reading higher tank pressure than the corresponded table pressure e.g. cargo propane tank pressure 1,5 bar and temperature -40oC?
- A** When we have a higher cargo tank pressure than the corresponded in the table, it means that we have inert or nitrogen left in the tank or the cargo itself is not clean
- 
- PWVY** Why is absolute units utilised in technical calculations?
- A** Because the manometer units change with the atmospheric pressure and all values start at vacuum



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PWXQ** On most passenger ferries there are no requirements regarding passenger muster exercises. What is the most effective way of informing embarking passengers.
- A** Information about muster station on boarding card, poster in cabins, safety video running continuous.
- 
- PWYO** What is the meaning of "Make Fast"?
- A** To secure the rope
- 
- PXDL** What does UEL mean?
- A** Upper explosive limit.
- 
- PXHP** What are the average total working hours per week that must be exceeded over a period of at most one year on board NIS ships?
- A** 56 hours
- 
- PXKF** During abandon ship exercise, what life-saving equipment must be demonstrated?
- A** Wearing and fastening of lifejackets and associated equipment
- 
- PXNM** Describe the contents of the inside cover of the Official log book
- A** Gives reference number as per crew agreement, and name of each crew member on board
- 
- PXNO** The heat needed to transform a solid substance at a given temperature into a liquid substance with the same temperature is called, what?
- A** Melting heat.
- 
- PXTG** A person wearing lifejacket shall be able to turn from a face-down to a face up position in not more than:
- A** 5 seconds
- 
- PXXG** You are to release the towing wire with forerunner. You have 3 men with you to do the work. How do you do it in a safe way?
- A** Use the winch. Forerunner and wire stopper to pick up the slack and stop the wire. One man operating each. Make the forerunner fast on the bit, releasing the eye of wire and the stopper, lower the wire easy by forerunner
- 
- PXXG** You are to release the towing wire with forerunner. You have 3 men with you to do the work. How would you safely carry this out?
- A** Use the winch. Forerunner and wire stopper to pick up the slack and stop the wire. One man operating each. Make the forerunner fast on the bit, releasing the eye of wire and the stopper, lower the wire easy by forerunner
- 
- PYHM** Under what load condition would sootblowing of the boiler tubes be most beneficial?
- A** When the boiler is firing on high rate.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- PYHO** The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included in the "muster list" according to present regulations?
- A** Closing of watertight doors, fire doors, valves, scuppers, sidescuttles, skylights.
- 
- PYIH** How many hand held distress flares are carried in each liferaft?
- A** 6
- 
- PYIK** For a large decrease in the specific gravity of the oil, the gravity disc hole diameter should be:
- A** Increased.
- 
- PYKD** Are there any circumstances which allow extra hours to be worked
- A** To deal with emergencies and safety of the ship
- 
- PYKE** Some of the valves in the system are marked ESD. What does this mean?
- A** Emergency shut down.
- 
- PYLL** A vapour compression refrigeration system is usually fitted with a number of devices to give protection and control of the system. Which of the methods given in the options should be used to test the high pressure cut out during routine maintenance and checking of the system?
- A** Gradually shut in the condenser cooling water valve or the condenser refrigerant inlet
- 
- PYPA** \*On ships fitted with davit launched liferafts, how often should onboard training take place, including, when applicable, the inflation and lowering of a liferaft?
- A** Every four months
- 
- PYQV** What is the fog signal for a vessel which is not under command?
- A** One prolonged blast followed by two short blasts at intervals of not more than two minutes
- 
- PYRQ** The Reid Vapour Pressure (RVP) test is a simple and commonly used method for measuring which of the following characteristics of an oil cargo?
- A** Stripping pump.
- 
- PYRQ** The Reid Vapour Pressure (RVP) test is a simple and generally used method for measuring What?
- A** Stripping pump.
- 
- PYTF** It is very important to follow a maintenance schedule for purifiers. Why?
- A** To prevent serious damages on main components.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

PYUA

In order to extinguish a fire with a portable extinguisher, we must proceed in the following way:

- A** Maintain a safe distance, apply the extinguishing agent to the base of the flames with the wind behind us

PYWM

What type of vessel is this?

- A** A vessel engaged in fishing other than trawling not making way through the water

QABD

Which one of the listed requirements regarding thermal protective aids do not correspond to present regulations? The thermal protective aids shall:

- A** permit the wearer to swim a short distance through the water and board a survival craft

QAJN

Zinc will corrode to protect which of the following metals?

- A** Cast steel, Iron, Brass & Bronze.

QAJN

Zinc will corrode to protect which of the following metals?

- A** To prevent corrosion of the metals used in the system

QAKI

What is the minimum number of fire control plans that should be permanently stored in a prominently marked weathertight enclosure outside the deckhouse for the assistance of shore side fire fighting personnel?

- A** At least one

QALV

To accommodate expansion of piping on the deck of a chemical tanker the following are fitted:

- A** Natural bends at intervals?

QAMT

What are the Chief Mates orders?

- A** He wants the anchor secured thoroughly

QAPI

You are carrying out a search in a smoke filled room, wearing a breathing apparatus. How would you conduct this search?

- A** Carry out a right or left hand search and proceed carefully, feeling the area in front with the foot and using the back of the free hand to check the area around.

QAUC

What is the first thing you would check when taking over a boiler watch

- A** the water level

QBDI

What is the minimum number of portable fire extinguishers that must be carried on ships of 1000 GRT and above?

- A** 5



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- QBEJ** When no RU (Rescue Unit), but a number of merchant vessels are participating in a search and rescue operation, one of the vessels should be designated as CSS (Co-ordinator Surface Search), Which practice should be followed in designation of the CSS? CSS to be appointed by:
- A** Mutual agreement between participating vessels
- 
- QBEL** \*What is the maximum floor area that one heat detector can cover?
- A** 37 m<sup>2</sup>
- 
- QBGU** During cargo and/or bunkering-operations you have all scuppers closed. It starts raining and there is a slight oilsheen on the water on deck. What to do?
- A** Drain the water into the sloptank
- 
- QBHO** What is the disadvantage of using chemicals on an oil-spill on the water?
- A** The chemicals make it difficult to remove the oil from the water
- 
- QBIM** What would be the stopping distance of a VLCC when proceeding at 8 knots in deep water and the engines are put Full Astern?
- A** I can find out from sea trials or test on my own
- 
- QBVS** What should a complete set of safety equipment at least consist of (required by IBC/BCH in addition to Solas) ?
- A** One self-contained air breathing apparatus (Not using stored oxygen), protective clothing, boots, gloves and tight-fitting goggles, fire and chemical resistance lifeline and explosion-proof lamp.
- 
- QBVV** What is the engine cadet ordered to do?
- A** He is supposed to paint the evaporator and use a brush to apply the paint
- 
- QCCO** What does the abbreviation "ODME" stand for?
- A** Oil Detection Monitoring Equipment.
- 
- QCDH** This circuit consists of a current source I, a change-over switch S, a resistor R and an inductor L. The voltage/time figures 1 to 4 show possible changes through L if the switch S is suddenly shifted from position 1 to 2 at time  $t = 0$ . Only one of the diagrams is correct. Which?
- A** Figure 3
- 
- QCNI** Vessels communicating with each other by mariphone, work:
- A** always simplex
- 
- QCQP** During COW what actions are required if delivered inert gas exceeds 8 percent oxygen by volume?
- A** Stop operation?





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QDBP

How often should cargo hoisting equipment be thoroughly examined?

A Every 5th year?

QDFT

Give the meaning of the following symbol:

A liferaft

QDGL

The Satellite orbit in the Cospas-Sarsat system is:

A polar

QDID

\*How much liferaft capacity should be provided on a conventional cargo ship of more than 85 meters in length.

A 100% of the complement if it can be readily launched on either side of the ship. If it cannot be readily launched on either side, 100% must be provided on each side

QDND

What is the requirement for bolting/securing of the blind flanges on the cargo manifold during cargo operation?

A All bolts to be in position and tightened?

QDRM

If your vessel is responsible for the spillage of a harmful quantity of oil cargo onto the navigable waters of the United States, the adjoining shoreline or the contiguous zone, how must this be reported?

A The person in charge must report the spill to the US Coast Guard

QDSH

While transmitting with an MF/HF transceiver the transmitting power is suddenly decreasing. The cause may be:

A the transmitting antenna has broken down

QDUW

What is the purpose of the corrugations on the plates?

A Stiffening of the thin metal sheet.

QDXJ

What is the AB to do?

A He is to help the other crew members and fetch more Vaseline from the storage room if they run short

QEAB

To get priority with radio-communication, one must notify the coast-station that the call is:

A an urgent call

QEAU

The exhaust gas temperature is too high in all cylinders because of:

A Clogged exhaust gas system.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QEID	How often must a crew member participate in a fire drill?
A	Once every month
QEMG	When you notice oil on the water near your vessel during bunkering, you should first?
A	Stop bunkering
QEMI	What is the purpose of the "small diameter line" on a crude oil tanker?
A	Make it possible to drain to shore the remaining cargo in the ship's lines and pumps, after the discharging is completed
QERF	When we are measuring level of liquids with a conductivity level indicator, measurement is performed by?:
A	Electrodes
QERF	When we are measuring level of liquids with a conductivity level indicator, the name of the sensing device is:
A	Electrodes
QERG	During UMS rounds at night during a sea passage the duty engineer discovers the main engine lube oil pump starter "chattering" loudly. What is the correct action to be taken?
A	Switch over to the other pump and inform the CE of the noise immediately.
QERG	During UMS rounds at night during a sea passage the duty engineer discovers the main engine lube oil pump starter "chattering" loudly. What is the correct action to be taken?
A	Switch over to the other pump and inform the CE of the noise immediately. Keep engine
QESD	Which item among those below is included in the normal equipment of every liferaft ?
A	one waterproof electric torch suitable for Morse signalling
QFBP	Where on board can you find the different types of protection equipment, the placement, how much equipment etc?
A	The ship's safety plan.
QFBP	Where on board can you find the different types of protection equipment, the placement, how much equipment etc?
A	The ship's safety plan.
QFHG	Which organs absorb oxygen and part with carbon dioxide?
A	The respiratory organs.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QFJV

\*Give the meaning of the following symbol

A Start engine

QFNX

What is minimum equipment needed for entering a tank or void space that is not gas free or does not contain sufficient oxygen?

A Self contained breathing apparatus in addition to normal safety equipment.

QFPK

The frequency 121,5 MHz is used for :

A SART-COSPAS EPIRBS

QFRB

The International Organisation which has established the frequencies to be used in the GMDSS is:

A ITU

QFRG

Secrecy in maritime radio traffic means that:

A received messages which aren't intended for own ship are not used

QFUQ

What is the maximum time allowed for closing all watertight doors according to SOLAS

A 1 minute

QGBC

A burn may occur when electricity of high current and voltage passes through the body. Most damage occurs at the points of entry and exit of electricity. What is the treatment of electrical burns?

A Place sterile dressing over the burn and secure with a bandage.

QGDC

Who will verify the computational results and actual ship data used by the calculation program on a vessels stability computer?

A - The Classification Society.

QGEN

For what period of time is the protection and environment committee elected?

A 1 - 2 years.

QGER

According to the Oil Pollution Act of 1990 (OPA-90), oil carrying vessels trading in U.S. waters are required to carry oil spill clean up equipment for the containment and removal of on-deck spills. For a vessel of over 400 feet (121.9 metres) in length, what volume of oil must they be able to handle?

A Departure and arrival ballast tanks plus 25% of remaining cargo tanks for sludge control.

QGER

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**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QGEW

Vessel A wishes to overtake vessel B as shown in a narrow channel or fairway. What sound signal should A make to indicate that he wishes to overtake B on his starboard side?

- A Two prolonged blasts followed by one short blast

QGHC

What will the stopping distance of your ship be when proceeding with 5 knots and reversing to full astern?

- A The sea-trial tests may tell me, or else I can do a test myself to find out

QGIV

Which of the following is a combustion reaction?

- A All the answers are good

QGPJ

Which cargo lines must have relief valves?

- A All pipelines or components which may be isolated in a liquid-full condition should be provided with relief valve

QGPL

There are a number of liquefied gases transported by sea. What is the most common component of these liquefied gases?

- A Liquefied gases is mostly a mixture of hydro carbons

QGPP

Where is it compulsory to place a portable extinguisher in an engine room containing an internal combustion machinery?

- A In such locations that no point in the engine room is more than 10 m walking distance from an extinguisher

QGSA

Which one of the listed requirements regarding line throwing appliances do not correspond to present regulations? Every line throwing appliance shall:

- A have a sufficient length of non-combustible line behind the rocket

QGT0

\*Which one of the following items has to be included in an abandon ship drill?

- A instruction in the use of radio life-saving appliances

QGTQ

To supervise the pressure conditions in the cargo tanks, a special device is fitted for this purpose. What is it called?

- A Pressure/vacuum valve.

QGXX

Do you think increased temperature of the mixture would improve the separation of oil and water?

- A Yes

QHEK

Which word will precede a safety message ?

- A SECURITE



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QHHU

Which item among those below is included in the normal equipment of every lifeboat ?

- A watertight receptacles containing 3l of fresh water for each person (may be partially replaced by a desalting apparatus)

QHKJ

\*The breaking strength of the painter in a liferaft permitted to accommodate 6 persons is at least:

- A 7,5 kN

QHQI

What would be the consequence of operating a centrifugal pump with the discharge valve closed for an extended period of time?

- A Pump will overheat

QHQI

What would be the consequence of operating a centrifugal pump with the discharge valve closed for an extended period of time?

- A The pump will eventually overheat.

QHRY

Where is the best position of the oil/water interface in this figures?

- A Position A

QHUG

In an OBO, if part liquid is present in any hold (say 60% by volume) this will give rise to "sloshing" which is the movement of liquid when the vessel is rolling or pitching. Sloshing can cause:

- A All the mentioned alternatives.

QHYQ

What type of vessels are these?

- A Two vessels engaged in pair trawling

QIAE

An OBO or O/O vessel is carrying dry cargo, but has been constrained to retain her slops in the slop tanks under an inert gas blanket. On the inert gas line common to the cargo holds and slop tanks we should:

- A Insert a blank flange on the line between the slop tanks and the rest of the cargo compartments?

QIFA

Which laws are applicable to NIS vessels?

- A Norwegian laws unless explicitly otherwise provided in or pursuant to a statute

QIGW

In a distress situation how many times, or for how long is the emergency alarm signal to be sounded ?

- A until it is manually turned off or is temporary interrupted by a message on the public address system

QIOL

Other than the Code of Safe Working Practices for Merchant Seamen (COSWP), where else can information be gained regarding guidance and instructions on safety matters?

- A MGN's; MSN's and Statutory Instruments



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- QIVI**                      What kind of starting system shall the lifeboat engine be fitted with ?
- A**    either a manual system or a power starting system with two independent rechargeable energy sources
- 
- QIXR**                      As a general rule, where would you expect to find a portable fire extinguisher intended for use in a given space?
- A**    Near the entrance to that space
- 
- QJGW**                      Explain the difference between absolute pressure and manometer pressure.
- A**    Absolute pressure is atmospheric pressure added with manometer pressure, to be used in technical tables
- 
- QJLX**                      The "small diameter line" on a crude oil carrier goes from the pump room to ....
- A**    The shore-side of the cargo manifold valves, port and starboard side
- 
- QJMW**                      Small oil spills on deck can be kept from going overboard by doing what?
- A**    Plugging the scuppers
- 
- QJOF**                      Give the meaning of the following symbol
- A**    Radar transponder
- 
- QJOH**                      What do you understand by the term Traversing?
- A**    Making the complete crane move port and starboard.
- 
- QJTG**                      When ordering cornflakes, which unit of measurement would you use?
- A**    Packages of 500 g each
- 
- QKCU**                      What initial simple recommendation can we give to reduce oxygen in the boiler water?
- A**    Raise the feed water temperature.
- 
- QKGW**                      You are the Duty officer on vessel "A" in US Fairway waters. According to your radar observation you will pass tug "B" and at the same time you will be in a close situation with vessel "D". How will you safe the situation?
- A**    By reducing your speed until vessel "D" is cleared
- 
- QKGW**                      You are the Duty officer on vessel "A" in US Fairway waters. According to your radar observation you will pass tug "B" at which time you will be close to vessel "D". How will you make this situation safe?
- A**    By reducing your speed until vessel "D" is cleared
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**QKGW**

You are the Duty officer on vessel "A" in US Fairway waters. According to your radar observation you will pass tug "B" during which time you will be close to vessel "D". How will you make this situation safe?

- A** By reducing your speed until vessel "D" is cleared

**QKHP**

Where on a ship is the deck known as the "Boat Deck"?

- A** The deck for the lifeboats.

**QKHR**

The timing of the ignition in a 4 stroke diesel engine depends on:

- A** the adjustment of the cam/camshaft of the engine.

**QKLO**

What is the reason to charge air pressure drops?

- A** Air filter to turbocharger fouled or damaged.

**QKLW**

The correct functioning of a DSC-modem can be checked by means of:

- A** the build-in test facilities in the modem

**QKMN**

\*Give the meaning of the following symbol

- A** Start engine

**QKRO**

During a Safety equipment annual survey, the emergency fire pump is found to be inoperative, what actions would the surveyor take?

- A** He would inform master that ship was unseaworthy, and that the emergency fire pump must be rectified before the ship can sail or the Safety Equipment certificate can be endorsed

**QKVR**

Give the meaning of this symbol:

- A** lifebuoy with line

**QLFS**

What corrections must be applied to the echo sounder reading to compare the depth of water with the depth printed on the chart?

- A** Regulations of the light on the PPI.

**QLHH**

Which of the following types of fire extinguishers must be found in an engine room containing an internal combustion engine ?

- A** All of these mentioned must be provided

**QLKA**

Some 4-stroke engines are equipped with cooled fuel valves. Why is it so important to keep the coolants temperature correct?

- A** For cooling and to maintain correct viscosity on the fuel when injected.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QLMO

Where in the book "Excerpts from the Norwegian Ship Control Legislation" is it stated that the form "Marine casualty report" is to be used in connection to a request for maritime inquiry?

A In the main section VI, letter F.

QLRK

The call sign of a vessel is meant to:

A be able to identify oneself

QLTD

\*Which of following items shall be included in an abandon ship drill?

A operation of davits used for launching liferafts

QMBL

What will you serve seafarers who has been exposed to cold?

A Warm nutritious drinks.

QMBN

What does the Chief Mate want to have done?

A He wants all the lashings tightened and two extra chains fastened to each container

QMFV

In most ports, tankers are required to discharge in enclosed atmosphere. What is the required capacity of the I.G. Blowers in relation to cargo pumps ?

A 125 pct?

QMKY

Whilst unmooring after a ship to ship transfer operation, experience shows that, for the manoeuvring vessel, casting off the forward moorings first and letting the bow swing out before casting off the final after moorings, and then steaming away is a satisfactory procedure. It is recommended however that the

A 5 °

QMW E

Which one of the listed requirements regarding "week links" for float free arrangements for liferafts do not correspond to present regulations? Week links shall:

A release the liferaft at a depth of not more than 4 metres

QMWG

To what purpose is safety meetings held prior to surveys?

A To check out if the rules of ISGOTT Chapter 10 is followed.

QMXA

What is the Chief Mate worried about?

A He is worried that oil will run through the outlets and into the sea

QMYC

In which way shall a survivor be hauled out of the sea?

A Horizontal





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QNGM

Too low exhaust temperature in one cylinder becomes because of:

- A** Injection valve opening pressure is too high.

QNVJ

When at sea, you discover that the bilges in the engine room have a large quantity of oil residues floating around. What action should you take?

- A** Notify Chief Engineer, find cause of leakage, remedy the leakage and then immediately start to clean the bilges

QNPV

How many thermal protective aids are carried in each liferaft?

- A** 10% of the number of persons the liferaft is designed to carry, or two, whichever is the greatest

QNXV

The emergency battery of a GMDSS portophone:

- A** must be replaced when the seal is broken

QOCD

How often should each lifeboat be lowered into the water and manoeuvred with its operating crew aboard under SOLAS regulations?

- A** At least every three months

QOCF

The ID of an Inmarsat B station on board starts with:

- A** 3

QONU

Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?

- A** Keep the floors and decks free from fat and grease.

QONU

Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What should be done to reduce this high accident rate?

- A** Keep the floors and decks free from fat and grease.

QORA

What is the minimum oil level on the drawing?

- A** A

QOSA

You have observed a small leak of oil at the manifold during discharging. What is your first action?

- A** Call immediately the person in charge.

QOSC

The ODME is recording the operation data on a paper roll. How long must the ship file these paper rolls?

- A** 3 years.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- QOTU** You are lowering the bilge retention tank level overboard via the O.W.S. and you reach the oil/water interface. Would you:
- A** Pump the oil to the incinerator tank.
- 
- QOTU** You are lowering the bilge retention tank level overboard via the O.W.S. and you reach the oil/water interface. Would you:
- A** Stop the OWS and pump the oil to the incinerator tank.
- 
- QOUP** Who is the responsible person for the safety of the ship and all those onboard?
- A** The Master
- 
- QPBC** What is the purpose of a deck seal?
- A** To avoid backflow of gas to the engine?
- 
- QPIQ** When establishing primary contact between vessels, if English is the language agreed upon for working and a minor understanding difficulty arises, which book would you use to help overcome this:
- A** Standard Marine Navigational Vocabulary.
- 
- QPJL** The electric motor on one of your centrifugal pumps has for a period of time gradually been running at lower and lower Amp-load. The pump is still supplying water, but the pressure is reduced. Which of the below alternatives is probably the reason?
- A** Inner diameter of impeller is bigger due to cavitations, or outer diameter reduced by erosion.
- 
- QPJL** The electric motor on one of your centrifugal pumps has for a period of time gradually been running at lower and lower Amp-load. The pump is still supplying water, but the pressure is reduced. Which of the below alternatives is probably the reason?
- A** The pump impeller and wear rings have worn
- 
- QPKF** What will you serve seafarers who have been exposed to heat?
- A** Cold drinks and salt.
- 
- QPMT** This circuit consists of a current source  $I$ , a change-over switch  $S$ , a resistor  $R$  and a capacitor  $C$ . The current/time figures 1 to 4 show possible changes in the current  $I$  in case the switch  $S$  is suddenly shifted from position 1 to 2 at time  $t = 0$ . Only one of the diagrams is correct. Which?
- A** Figure C
- 
- QPMT** This circuit consists of a current source  $I$ , a change-over switch  $S$ , a resistor  $R$  and a capacitor  $C$ . The current/time figures 1 to 4 show possible changes in the current  $I$  when the switch  $S$  is suddenly shifted from position 1 to 2 at time  $t = 0$ . Only one of the diagrams is correct. Which?
- A** Figure C
- 
- QPMY** If conditions permit, which is the best way to board a liferaft which is floating close to the ship?
- A** Use a rope ladder close to the raft to climb down and board



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QPPH

Which special regulations cover transportation of grain?

A IMO Grain Rules?

QPPH

Which special regulations cover transportation of grain on a Bulk Carrier?

A IMO Grain Rules?

QPPI

Transmission lines play a central role in radio frequency circuits, where they are used to pipe signals around from one place to another within a circuit, and often to an antenna system. General rules for such transmission line is that they must be "matched". Which of the cables below would you use to obtain a

A Figure 4

QPYP

\*What is the minimum working pressure of the international shore connection?

A 1 N/mm<sup>2</sup>

QQBE

Watch keeping engineers shall have a minimum of knowledge of the vessels engine room and operation of its functions prior to being accepted as Engineer on Duty, and shall acknowledge his familiarization with the equipment by signing a check list listing all units he shall be able to operate. Minimum knowledge

A He shall have all the knowledge as listed in the other alternatives

QQCV

A lifejacket should be provided with:

A a whistle and a light

QQEL

Give the meaning of the following symbol

A Survival craft portable radio

QQFI

MUF stands for:

A highest possible frequency that will be reflected by the ionosphere

QQFL

When should equipment be cleaned?

A Every time the machine has been used.

QQNT

Which of these types of information is considered sensitive?

A Voyage itinerary and departure and arrival times.

QRAA

Three methods of fire protection regarding internal divisional bulkheading may be adopted in accommodation and service spaces in cargo ships. Which of the given methods do not correspond to present rules? (SOLAS II-2/42.5)

A Construction of all internal bulkheads of class "A" divisions



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QRBC

The typical "daylight-frequencies" for long distance transmission are located in the:

- A 16 or 22 MHz-band

QRKE

Which of the following detailed explanations should be mentioned in the Training Manual ?

- A The methods of retrieval

QRUF

Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these

- A Gas concentration measuring and examination in connection with cleaning and gas freeing shall be carried out by the safety delegate.

QRVV

Wearing an immersion suit when abandon ship is effective permits the person:

- A to jump from a height of 4.5m into the water without being injured or damaging the suit

QRXO

At which level will the slop-system high level alarm sound ?

- A 98 %

QSBA

Who can undertake initial and other Safety Radio Certificate surveys on a UK ship

- A GEC-Marconi

QSBV

Which among the following list is particularly required for a totally enclosed lifeboat ?

- A above water escape for its occupants after automatically positioned in damaged condition

QSQU

What do we understand by atomizing when we talk about injectors ?

- A That no solid beam of fuel shall be present

QSRN

The engine is started by compressed air. Which one of the following statements is correct ?

- A A heavily leaking starting air valve can cause an explosion in the starting air pipe system.

QSRP

What is Hypothermia and how is it cured?

- A Body temperature below 35C / Heat the body

QSRG

Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. During ongoing inspection on work in cargo tanks, the gas concentration shall be measured:

- A At three levels for at least two places in the tank.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QSUB

Give the meaning of the following symbol

A Line throwing appliance

QSXM

How large a deviation in opening pressure can be accepted in a diesel engine injection valve?

A 15 kg/cm?

QSNX

A vessel, which has a mariphone with a license, is sold. What should be done next?

A Inform RDR by mail of the sale of the mariphone

QSPX

\*Which of the following is a characteristic that is required for a "class A" bulkhead or deck ?

A it stops the spreading of smoke and flames during one hour

QSPX

\*Which of the following is a characteristic that is required for a "class A" bulkhead or deck ?

A It stops the spreading of smoke and flames during one hour

QSYH

What precautions should be taken, in addition to shutting the main air start valve, if work is to be carried out inside the main diesel engine crankcase?

A Engage the turning gear and put a notice at each engine control position.

QSYH

What precautions should be taken, in addition to shutting the main air start valve, if work is to be carried out inside the main diesel engine crankcase?

A Engage the turning gear on the engine.

QBTB

The muster list shall specify details of general alarm signal and also actions to be taken by crew and passengers when the alarm is sounded. Which of the following actions do not necessarily have to be included in the muster list? The muster list shall:

A be prepared and approved by the Administration before the ship proceeds to sea

QTDK

The water content of inert gas is important when the gas is used for cargo tank inerting and drying operations on a liquefied gas carrier. Which drier arrangement for the inert gas will result in the lowest water content and dew point of the inert gas?

A Absorption drier gives the lowest dew point down to -60oC

QTFE

The muster list shall show the duties assigned to the different members of the crew. Which of the given duties do not necessarily have to be included in the muster list?

A Clearing escape routes

QTHR

What is the correct name of the part highlighted in the sketch?

A Camshaft



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QTLR

Which class of emission is used for VHF DSC transmissions ?

**A** F1B

QTOF

Which of the following minerals is found particularly in bananas, cantaloupe melon and potatoes?

**A** Vitamin E

QTSJ

What is "DRAUGHT", in the figure?

**A** Draught is given by D on the figure

QTYE

When on HF band a DSC distress alert is received, you have to listen to:

**A** the radiotelephony distress frequency in the band in which the DSC distress alert was received

QUEX

What kind of process is a fire?

**A** all the answers are good

QUEY

To find Methylene Bromide in the IBC/BCH code, what do you need to look up on ?

**A** Dibromomethane.

QULK

How many sections are contained within the Official Log book?

**A** 8

QULS

You discover bugs in the white flour stored in the store room for dry stores. Where would you move the flour to prevent the problem from spreading any further?

**A** In the meat freezer

QUNH

What is the meaning of this symbol ?

**A** Embarkation ladder

QUNI

What is the role of the British Consul in relation to British ships?

**A** To assist in dealing with crew, cargo or ship regards whilst in a foreign port

QUOY

Why is line clearing from shore considered as a high risk operation?

**A** Because serious structural damage and overflow can be caused by the creation of pressure in the tanks during this operations.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QUQP

Read the text in the frame before answering the question: What has been ascertained after recent debates?

A That there is great concern and interest regarding the safety at sea

QUUQ

The display of a DSC-controller shows the following:(see original)The name of this station can be found in:

A List of Call Signs and Numerical Identities

QUUS

A distress alert sent by Inmarsat to an RCC is sent via:

A LES

QVCN

If a person has been overcome by fumes from toxic cargoes such as acetone cyanohydrin and has ceased breathing, you would:

A Wait for a resuscitator to be brought from the ship's first aid locker and use it?

QVEY

The Base Number of a lubricating oil is an indication of which of the following?

A Alkalinity of the lubricating oil.

QVEY

The Base Number of a lubricating oil is an indication of which of the following?

A The alkalinity of the oil.

QVFT

A lead battery of 200 Ah, in accordance with the DIN-standard, must be able to supply:

A 10 ampere during 20 hours

QVFU

What is the signal used by a life saving station or rescue unit indicating that distress signals are observed at night time ?

A 3 White star rockets

QVLG

Which of the following features is required for an anti-exposure suit ?

A has inherent buoyancy of at least 70N

QVRB

Which (new) Act was given a new basic structure in 1994.

A The Maritime Act

QVSY

Passenger ship engaged in international voyages must conduct a muster for all passengers. What is the time limit for this exercise?

A 24 heures



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**QWBM**

In a diesel engine lubrication system the circulating pump normally takes suction from the oil sump tank. Where would the oil normally pass to directly after the pump?

**A** Lube oil cooler.

**QWBM**

In a diesel engine lubrication system the circulating pump normally takes suction from the oil sump tank. Where does the oil pass to directly after the pump?

**A** Lube oil cooler.

**QWBO**

What would be the effect if air was to enter the freon system?

**A** Increase in condenser pressure.

**QWEQ**

In U.S. waters the OPA rules have to be taken in considerations, but what types of ships do these rules affect?

**A** All ships.

**QWFO**

A refractory material is one that will retain its solid state even at very high temperatures, and furnace temperatures as high as 1650 °C have been recorded in marine boilers. What is the primary purpose of using a refractory?

**A** All of the mentioned alternatives.

**QWIA**

Which type of equipment can be used to detect explosives?

**A** Particulate detector

**QWJQ**

\*Which of following items shall be included in an abandon ship drill?

**A** reporting to stations and preparing for the duties described in the muster list

**QWVK**

What is Hz the abbreviation for?

**A** Frequency in Cycles per second

**QXAK**

Which activity will have the greatest fire-fighting effect in case of a fire?

**A** Extinguishing attempt is started immediately

**QXFN**

What is the criterion for heat exchangers that is used in cargo handling?

**A** Heat exchangers that are utilised for cargo handling must be designed and tested to tolerate the products the carrier is registered to transport

**QXGH**

Where do we find information regarding fire extinguishers, fire doors, remotes release buttons, fire equipment etc. onboard a ship?

**A** The ship's fire plan.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- QXGL** With reference to diesel engine ancillary system operation, which one of the given statements is true?
- A** Normal jacket water temperature after the cooler is approx. 80 C
- 
- QXIB** How would an enclosed space be defined?
- A** One in which the atmosphere may have a deficiency of oxygen or may have a toxic gas
- 
- QXLI** Why is it imperative that when the Disciplinary procedure is invoked, all details are carried out in front of a witness and recorded in the official log book
- A** If the seaman brings a case of unfair dismissal against the Master/Company, it serves to ensure that all details have been recorded and is admissible as evidence
- 
- QXMC** Which one of the listed routine test and inspections of life-saving appliances is not required by the regulations?
- A** General emergency alarm to be tested daily
- 
- QXXB** Under GMDSS rules the trading area A3 can be considered to be:
- A** Within coverage of the INMARSAT system.
- 
- QYAI** Which of the following detailed explanations should be mentioned in the Training Manual ?
- A** The use of helicopter rescue gear
- 
- QYAM** \*What is the minimum length of the buoyant lifeline that is fitted to a lifebuoy which is stowed at a distance of 10 metres above the waterline (light condition)?
- A** 30 metres
- 
- QYBG** In a distress-situation a MF/HF-DSC transmission is used in the 8MHz frequency. In this case always:
- A** indicate on what frequency communication will be continued
- 
- QYMA** Give the meaning of the following symbol
- A** Secondary means of escape
- 
- QYNU** Tank (4) in the outlet piping is designed to:
- A** Prevent air accumulation in the cooling water system
- 
- QYOS** What is the correct way to obtain a reduced capacity with a centrifugal pump?
- A** By throttling of the pump discharge valve



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

QYOS

What is the correct way to obtain a reduced capacity with a centrifugal pump?

**A** Throttling of delivery valve

QYQB

\*Generally speaking, what is the value commonly recognised as the maximum concentration of CO<sub>2</sub> allowed in the breathing air of a breathing apparatus?

**A** 1000ppm

QYRW

During search and rescue operations an aircraft crosses the wake of your vessel close astern at low altitude. What does it indicate, if the aircraft rocks its wings, opens and closes the throttle or changes the propeller pitch?

**A** Your assistance is no longer required

QYUD

What kind of safety protection is to be wearred during a mooring operation?

**A** Helmet, safety shoes, gloves and protecting cloths.

RABL

Give the meaning of the following symbol

**A** Push button for fire alarm

RAGG

Give the meaning of the following symbol

**A** Line throwing appliance

RAHA

Total Base Number ( TBN ) is important as a measure of neutralizing ability against strong Acids. What will You do if this TBN base number is reduced to a low level?

**A** Renew lub oil in the system.

RAHB

As a general rule, where would you expect to find a portable fire extinguisher intended for use in a space?

**A** Near the entrance to that space

RAKK

What is the centre for overall co-ordination of rescue operations called?

**A** Rescue Co-ordination Centre

RALO

Sea area A3 is in maritime radio traffic a sea area:

**A** with the exception of the A1 and A2 area, within the coverage of an Inmarsat satellite in which continuous alerting is possible

RAMF

What is the required number of hours that a SARTs battery must be able to operate the unit in the standby mode?

**A** Four (4) days.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RARA** How shall the Norwegian Maritime Directorate be informed when a seafarer is seriously injured on board?
- A** By a telecom report followed by a report on a personal injury report form
- 
- RARC** All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.1 - 10.1.2)
- A** Information regarding maximum deck cargo permitted shall be available.
- 
- RARK** As a fire fighter, what should you always consider when fighting a fire in a confined space?
- A** The confined space always has six sides
- 
- RAVI** Which one of the listed requirements regarding the stowage of rescue boats do not correspond to present regulations? (SOLAS III/14)
- A** Rescue boats shall be stowed attached to launching appliances
- 
- RBCW** When is the master required to be on the bridge during transit of the Suez Canal?
- A** - A passage plan should be discussed between the Master and pilot, when under pilotage in the same way as discussed with the bridge team when deep sea
- 
- RBCW** When is the master required to be on the bridge during transit of the Suez Canal?
- A** The master or his qualified representative must be on the bridge at all times
- 
- RBDT** What is the requirement for stopping arrangements for power-ventilated accommodation spaces, cargo compartments, machinery spaces, service spaces and control stations (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.10)
- A** Must be capable of being stopped from an easily accessible position outside the space being served
- 
- RCAM** Where would you find the document relating to the "Condition of Freeboard Assignment" onboard?
- A** - With the Loadline Certificate.
- 
- RCCV** When a fire breaks out in the engine room, who is in charge of the fire fighting operations?
- A** The Chief Engineer
- 
- RCFG** Should recommended routes information be used together with weather routing?
- A** Yes
- 
- RCLB** Mention some important thoughts for what you have to do when you recognise that fire break out onboard.
- A** Report to bridge or duty officer, actuate the fire alarm, call the persons around the fire and join the fire squad



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RCLC

The effectiveness of foam is based on:

**A** smothering and cooling

RCLY

High oxygen content in the fluegas may be caused by:

**A** All the mentioned alternatives ?

RCOH

Can a nitrogen blanket be maintained on a cargo containing an inhibitor which is "oxygen dependent"?

**A** No, if this is done the lifetime of the inhibitor will be reduced.

RCTK

Before taking insulation resistance readings of generator windings the automatic voltage regulators should be isolated and all semiconductor short circuited or disconnected in order to:

**A** Prevent damage to sensitive electronic components from high voltage tester

RCWF

How many hand held distress flares are carried in each liferaft with SOLAS B pack?

**A** 3

RCWR

Under normal conditions, the electric power for services supplied from the emergency switchboard is supplied from:

**A** The main diesel generator or shaft generator.

RCXT

Which of the following will have the highest price per kilo?

**A** Boneless beef entrecote

RDBW

Which statutory certificates can never be extended

**A** International Oil Pollution Prevention Certificate, UK Oil Pollution Prevention Certificate, Safety Construction Certificate of Fitness.

RDFA

What may be the reason to an unsatisfactory separation result for a fuel oil separator of ALCAP type?

**A** Throughput too high.

RDFC

In the lubricating oil system on an auxiliary diesel engine a duplex filter unit is used because:

**A** Changing of filter element would not interrupt the engine operation.

RDFC

In the lubricating oil system on an auxiliary diesel engine a duplex filter unit is used because:

**A** With the engine running, change over to the other filter after priming it and replace the



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RDJB** The Ziegler-Nichols method is used in control engineering when setting up the system. Which of the system components given in the options would this method be applied to during initial set up?
- A** PID controller for tuning
- 
- RDPC** Which one of the listed requirements regarding two-way radiotelephone apparatus for survival crafts do not correspond to present regulations?
- A** The apparatus shall be capable of being operated on VHF channel 16
- 
- RDRP** A three phase alternator is connected singularly to the main switchboard. The switchboard instruments show 400 Volts/500 amperes. With a power factor of 0.5 what will be the kW load?
- A** 579.2 kW
- 
- RDRP** A three phase alternator is connected singularly to the main switchboard. The switchboard instruments show 440 Volts/950 amperes. With a power factor of 0.8 what will be the kW load?
- A** 579.2 kW
- 
- RDSN** Which of the following items is essential and should always be kept in stock?
- A** White flour
- 
- RDSP** Some liquefied gas carriers use prismatic tanks for the cargo containment system. What is the main reason for including a longitudinal bulkhead in prismatic cargo tank designs?
- A** To reduce the free surface "sloshing" on the cargo
- 
- RDWQ** Which emission class is used in the NAVTEX system
- A** F1B
- 
- RENR** What extent of knowledge must nominated persons, (excluding the officer with overall charge) participant in the operation have according to the crew manual?
- A** Fully knowledgeable of the content.
- 
- REOI** The main engine turbocharger speed has increased during the night while operating in UMS mode. From the options given, what is the most likely cause of this?
- A** The current and wind are holding the vessel back
- 
- REOI** The main engine turbocharger speed has increased during the night while operating in UMS mode. From the options given, what is the most likely cause of this?
- A** The engine load has increased due to external factors such as current and wind.
- 
- RFBU** Which class of emission is used for VHF radio telephony transmissions ?
- A** G3E



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RFFV** What type of lubricating oil is generally used for cylinder lubrication on a large, 2-stroke diesel, main propulsion engine?
- A** Alkaline.
- 
- RFFV** What type of lubricating oil is generally used for cylinder lubrication on a large, 2-stroke diesel, main propulsion engine operating on heavy fuel oil?
- A** Alkaline.
- 
- RFGW** You are sailing in shallow water, with 15% Under Keel Clearance. How will the stopping distance be, compared to deep water?
- A** Longer
- 
- RFHP** In large 2 stroke diesel engines with oil cooled pistons it is normal practice to maintain circulation of the cooling oil for a period after the engine has stopped. Why is this done?
- A** Overheating of the piston, and oil coke deposits in the cooling chambers.
- 
- RFJB** The water cooling space on a turbocharger is damaged and there is no spare casing. The cooling water must be shut off. Which option would you take to keep the risk of further damage to a minimum?
- A** Dismantle the rotor and assemble the sealing plate
- 
- RFJB** The water cooling space on a turbocharger is damaged and you have no spares. The cooling water must be shut off. Which option would you take to keep the risk of further damage to a minimum?
- A** Dismantle the rotor and assemble the sealing plate
- 
- RFJD** What would be considered the most favourable heading of a ship when launching a lifeboat?
- A** Vessel steering a few degrees off weather / sea (approx 30 degree)
- 
- RFKY** Which among the following list is particularly required for a totally enclosed lifeboat?
- A** Arrangement for rowing
- 
- RFPA** By wave length is understood:
- A** the distance travelled by a radio vibration in a period
- 
- RGAY** What should be the status of the suction and discharge valves when starting a centrifugal pump?
- A** Suction valve open, delivery valve closed
- 
- RGBR** What is the advantage of a transmitter with a narrow measurement range
- A** Better linearity and increased accuracy



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RGBR

What is the advantage of a transmitter with a narrow measurement range?

A Better linearity and increased accuracy

RGCL

\*What is the term used to identify the division that stops the flames until the end of the first half hour in a standard test of fire exposition, taking into account that the average temperature of the non-exposed face doesn't rise more than 139°C above the initial temperature, and also that the temperature at any place

A B-15

RGCP

How often are "abandon ship" drills required to be held on cargo vessels according to SOLAS?

A Once every month.

RGEC

A PH scale (meter or strip of paper) has values from 0 to 14, which values has acid?

A 0 - 7

RGFD

\*In cargo ships of less than 1000 gross tonnage the number of fire hoses (not including any hose required in any engine room or boiler room ) must be:

A To the satisfaction of the administration

RGFU

What can we achieve with improved knowledge of cleaning?

A In all professions you have to learn before you can manage a job.

RGGR

On area A2 the function " Transmission and reception of on scene communications" is mainly based on:

A the use of MF and/or VHF R/T

RGKG

What is the world-wide system operated by the US Coast Guard exclusively in support of search and rescue operations?

A - The Automated Mutual-Assistance Vessel Rescue (AMVER) System.^

RGMJ

The muster list shall show the duties assigned to crewmembers in relation to passengers in case of emergency. Which of the following duties do not necessarily have to be included in the muster list? The duties shall include:

A ensuring that every passenger is provided with an immersion suit or a thermal protective aid

RGQQ

What kind of special safety measures are required when working on a stage aloft?

A Harness with a rope secured to a safe point on the ship.

RGVO

During mooring operations; which is the safe position to be in?

A Outside the colored zone.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RGVQ

What does it mean if a product has the note F/T in Vapor detection column in the IBC/BCH ?

- A** The product is both flammable and toxic.

RGYC

Which of the following services is not provided by INMARSAT C:

- A** Telephone

RHCF

Which of the following frequency bands would most likely provide reliable communications between two stations that are 15 miles apart?

- A** The Very High Frequency (VHF) band.

RHFP

The DSC-controller displays the following:DOO: 246321000 CH16 ; S distress flooding After receiving this DSC message nothing more is received. Sending receipt on channel 16 does not give any response. One should first:

- A** send a DSC distress alert relay

RHGO

A DSC 'distress alert' message received contains the information: "GROUNDING".This means that :

- A** A vessel is aground

RHKU

What do we mean with MARVS on a cargo tank?

- A** We mean maximum allowed relieve valve setting

RHWK

What is the meaning of the term "Span" of a transducer

- A** The difference between maximum and minimum measurement that gives a standard output signal

RHWP

The ship has completed a 360 degree turn at full speed in deep water. The ship is now to repeat the turn at full speed in shallow water. What will be the difference in the turning circle diameter?

- A** No, the turning diameter will be increased in shallow water

RHXD

What is the meaning of this symbol ?

- A** Start air supply

RHYX

How is loss of electric power or other fault conditions of fire-detection and fire-alarm systems to be indicated? (SOLAS II-2/13.1.2)

- A** By audible and visual signals at the control panel

RIFO

Which one of the listed requirements regarding the stowage of a survival craft corresponds to present SOLAS regulations? Each survival craft shall be stowed:

- A** In a secure and sheltered position and protected from damage by fire or explosion.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**RIGH** What pollution category does Aniline belongs to ?

**A** C

**RIHE** What specific areas would be covered in a safety officers inspection

**A** Means of access, working environment, working conditions and general compliance with regulations

**RIIT** At which of the pressures shown should the low suction pressure trip operate on a freon compressor?

**A** +2 bar

**RIOP** When a number of merchant vessels, but no rescue units or warships, are participating in a search and rescue operation, one of the vessels will have to assume the duty as co-ordinator (CSS). Which one of the listed items is most important when designating a CSS?

**A** Good radio communication facilities (preferable 2182 kHz and/or 156.8 MHz (channel 16) radiotelephony and 500 kHz radiotelegraphy)

**RIPO** When maintenance work is to be carried out on an electric motor driving a centrifugal water pump with automatic start, should you;

**A** In conjunction with the senior watchkeeper and electrician, isolate valves, electrical

**RIPO** When maintenance work is to be carried out on an electric motor driving a centrifugal water pump with automatic start, should you;

**A** In conjunction with the senior watchkeeper and electrician, isolate valves, electrical supply, automatics and post 'Do not operate' signs before commencing work.

**RIPO** When maintenance work is to be carried out on an electric motor mounted on a centrifugal water pump with automatic start, should you;

**A** In conjunction with the senior watchkeeper and electrician, isolate valves, electrical

**RIPO** When maintenance work is to be carried out on an electric motor mounted on a centrifugal water pump with automatic start, should you;

**A** In conjunction with the senior watchkeeper and electrician, isolate valves, electrical supply, automatics and post 'Do not operate' signs before commencing work.

**RIRG** For any engine room operated in UMS-mode, defined checks are to be carried out prior to switching to UMS-mode. Is it the Engineer on Dutys responsibility to have the full control of condition of any check items prior to switching to UMS-mode and leaving the engine room, or may he leave the engine room for

**A** A described UMS-mode check shall always be carried out prior to leaving the engine room, irrespective of the time he will be absent.

**RIRJ** For which type of vessel is squatting most pronounced?

**A** Vessel with a high block coefficient

**RITQ** At what time shall automatic sprinkler, fire-detection and alarm systems be capable of immediate operation? (SOLAS II-2/12.1.1)

**A** At all times



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RIUL** Any ship of 10.000 tons gross tonnage and above shall be fitted with oily-water separating equipment for the control of machinery space bilges. What kind of equipment is required in this connection?
- A** Either Oil fitting equipment , or Oily-water separating equipment , or combination of both
- 
- RIUL** Any ship of 10.000 tons gross tonnage and above shall be fitted with oily-water separating equipment for the control of machinery space bilges. What kind of equipment is required in this connection?
- A** Either Oil fitting equipment , or Oily-water separating equipment , or combination of both.
- 
- RIVP** On area A2 the function " Transmission of ship to shore distress alerts" is mainly based on:
- A** the use of MF DSC
- 
- RIWF** Give the meaning of the following symbol:
- A** child's lifejacket
- 
- RJHC** Which VHF channel should be used for intership navigation safety communications?
- A** Ch.13
- 
- RJWB** With the compensating needle screw of a Woodward regulator is closed, what will happen when the load is changing?
- A** Woodward regulator will regulate very slowly
- 
- RKFK** If you discover serious technical deficiencies on your vessel, what would you do?
- A** Report to and discuss with the Master.
- 
- RKHY** Which one of the following requirements regarding radio telephone stations do not correspond to present regulations?
- A** While at sea the installation shall be maintained in a satisfactory condition
- 
- RKIR** The rudder is hard over when steaming at full ahead in shallow water. How much "lift force" remains when the engine is stopped?
- A** - About 10 %
- 
- RKIR** The rudder is hard over when steaming at full ahead in shallow water. How much "lift force" remains when the engine is stopped?
- A** About 10 %
- 
- RKIX** Under GMDSS rules the trading area A1 can be considered to be:
- A** Within range of VHF coast radio stations.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RKJP

What is the deepest Subdivisional Load Line?

- A** Waterline corresponding to deepest allowed draft permitted by subdivision requirements

RKKC

Give the meaning of the following symbol:

- A** immersion suit

RKLD

When you have an urgent message concerning the safety of a vessel, aeroplane or any other means of .....or a person, then you have to use:

- A** PAN PAN

RKMT

With full load on the main engine, the RPM for the turbocharger is too low. What may cause this?

- A** The diffuser ring is damaged.

RKMV

Can the audible and visible high-level alarms be a part of the cargo monitoring system ?

- A** No, high-level alarms should be a separate system.

RKOI

The identification of a coast station is composed as follows:

- A** 00 followed by an MID-number and a station number

RKPG

According to the rules of GMDSS vessels one must be able to receive MSI with the aid of:

- A** NAVTEX and EGC-receiver

RKPK

What is the correct procedure to adopt when a liquid gas fire occurs?

- A** Promptly locate the fire and raise the alarm

RKPK

What is the correct procedure to adopt when a liquid gas fire occurs onboard a liquefied gas carrier?

- A** Promptly locate the fire and raise the alarm

RKPM

Must passenger ship carry a rescue boat onboard?

- A** Yes, one if the ship is under 500 brt. And two if the ship is over 500 brt.

RKRA

Who carried out the measurement survey for registration of a British ship

- A** A surveyor from one of the 6 societies authorised by the MCA



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RKSY

If you are the helmsman on duty, what would be the correct action if the OOW (officer on watch) gives you the order to: "Change over from Automatic pilot to Hand steering".

- A** Put the rudder about half way to port to slow down the turning rate

RKWT

Is too high separation pre-heating temperature harmful to lubricating oil

- A** Not at temperatures used for pre-heating

RKWU

What is the main fire fighting medium for tank deck on oil tankers?

- A** Foam is the main medium for tank deck fire fighting on oil tankers

RLAM

\*Which of following items shall be included in an abandon ship drill?

- A** Checking that lifejackets are correctly donned

RLDL

A tug is connected in a line at your bow. Will the bollard pull be the same at any speed?

- A** - No, when the ship's speed exceeds about 5 knots it will be expect\* that there will be a reduced pull exerted by the tug

RLDL

A tug is connected in a line at your bow. Will the bollard pull be the same at any speed?

- A** No, when the speed exceeds 5 knots we have not much help in a tug

RLEI

How much water per person is provided in a liferaft not equipped with a desalting apparatus?

- A** 1.5 litre

RLFI

Why shall knives never be left submerged in washing-up water?

- A** Because you may cut your fingers.

RLMB

\*How much lifeboat capacity should be provided on a conventional cargo ship of more than 85 meters in length ?

- A** 100% of the ship's complement on each side

RLPJ

What will you serve seafarers who have been exposed to heat?

- A** Cold drinks and salt.

RLPK

Which class of fire is a smouldering fire of wood, textiles, paper and/or other carbonaceous materials?

- A** Class A



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RLVB	What is the single most important factor when dealing with the hydraulic oil for a crane?
A	Use of dedicated, clean dry transfer equipment, ie. buckets, tubing and pumps
RLVD	While their respective characteristics differ in detail, which of the following main operating features do all positive displacement pumps have in common if they are working under non-cavitating conditions?
A	All of the mentioned alternatives.
RLYO	Zinc will corrode to protect which of the following metals?
A	Cast steel, Iron, Brass & Bronze.
RMHT	When would a certificate which has a validity of 2 years require an intermediate survey, rather than an Annual survey?
A	SEC On tankers over 10 years old
RMIN	Are the seafarers entitled to free boat service to exercise their right to go ashore?
A	Where possible the master shall provide such service. Cost and other circumstances may be taken into consideration.
RMNJ	*For how long does the fixed system of foam guarantee the application of foam on the deck of an oil tanker?
A	20 minutes if there is inert gas; 30 minutes if there is not
RMPC	The halogenated hydrocarbons (halon), are hydrocarbons in which molecule one atom of hydrogen (or more) has been replaced by another atom (or atoms) of
A	Fluorine and/or bromine
RMPC	The halogenated hydrocarbons (halon), are hydrocarbons in which the molecules have one (or more) atom(s) of hydrogen replaced by another atom (or atoms) of
A	Fluorine and/or bromine
RMTF	In case of a fire on the line in an oxyacetylene-line gas welding equipment, what action should be taken?
A	Close the valves on both bottles, first the acetylene and then the oxygen bottle
RMTH	What separating temperature do You mean is best for lub. oil.?
A	85 - 90 Centigrades.
RMUB	The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?
A	Instruction for emergency repair of fire-fighting equipment



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RMUI

What temperature should a water sample be at before carrying out boiler water tests?

**A** At room temperature.

RMUY

What is the state of the refrigerant immediately after the evaporator?

**A** Vapour at low pressure.

RMXG

The vessel has weigh the anchor and is heading for sea. The anchor to be stowed in position. How?

**A** The anchor to be all way in the hawsepipe and secured by brake on winch and wire/chain stopper

RMXL

\*As regards the launching and recovery arrangements for rescue boats which is required among the following?

**A** Means shall be available to prevent any discharge of water on to survival craft during abandonment

RNCS

\*In a distress situation, how many times or for how long should the emergency alarm signal be sounded ?

**A** until all crew members and passengers have reported to their respective muster stations

RNEG

The range of a VHF-set is mainly determined by:

**A** the height

RNFB

What shall the master do upon the termination of the employment relationship as to supervision of maritime service?

**A** Verify that the seafarer has been given his rights according to law or agreement, make entries in the sea service book or record of service, have a report on seamen sent to the Maritime Employer/Employee Register.

RNFT

\*Which one of the following items has to be included in an abandon ship drill?

**A** reporting to stations and preparing for the duties described in the muster list

RNFX

On a flue gas plant, the flue gas enters a washing tower where the gas is washed to remove soot, ashes and to separate undesired gases. What is the name of this «washing tower»?

**A** Scrubber.

RNOD

Which function is this operational amplifier circuit performing?

**A** Integrator

RNOE

Give the meaning of the following symbol

**A** Fire alarm panel



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RNOG** The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?
- A** The method of release from launching appliances
- 
- RNPW** When a blackout occurs: what should be your first action?
- A** Inform the bridge about the reason for blackout, and expected time to restart.
- 
- RNPW** When a blackout occurs: what should be your first reaction?
- A** Inform the bridge about the reason for blackout, and expected time to restart.
- 
- RNSP** Your vessel is to unmoor. Two tugs will assist at the unmooring. How do you want to use the tugs and at which position?
- A** Fast FWD and AFT in center lead to pull the vessel out from the jetty and make it in position for voyage
- 
- RNSP** Your vessel is to unmoor. Two tugs will assist at the unmooring. Which position and how do you want to use the tugs?
- A** Fast FWD and AFT in center lead to pull the vessel out from the jetty and make it in position for voyage
- 
- RNTY** The ship is to berth alongside a quay in calm conditions of no wind or current. The ship has a single fixed pitch right handed propeller. Which angle of approach would be considered the most favourable?
- A** No. 2
- 
- RNUD** Give the meaning of the following symbol:
- A** child's lifejacket
- 
- ROHD** Under most circumstances, how will communication be carried out between a ship and a SAR helicopter?
- A** - On VHFCh 16.
- 
- ROML** What are you going to measure regarding oxygen content and hydrocarbon gas content before any permits are issued and entering is allowed?
- A** 21% oxygen by volume and 0% hydrocarbon of LEL.
- 
- RONJ** \*Where a fixed fire detection system does not include means of remotely identifying each detector individually, detectors are grouped in "sections". These sections may cover up to:
- A** 50 enclosed spaces
- 
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- A** 50 enclosed spaces



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**ROQU** How often is the performance check of a Voyage Data Recorder by a competent person required under SOLAS?

**A** - Annually.

**ROSD** Which item among those below is included in the normal equipment of every liferaft ?

**A** instructions on how to survive

**ROVT** Where can you expect piracy to day?

**A** All over the world

**RPBK** What action must the Master take if 3(or more) crew members complain about the food

**A** He must instigate an investigation. He must inform the complainants of his findings and make recommendations as may be necessary

**RPHF** When considering instrumentation systems, what is the meaning of the expression dead-band?

**A** The controller will not react on a process change in a specific range

**RPIE** Why is it important that the combustion chamber of a boiler is properly ventilated prior to ignition?

**A** To avoid an explosion in case of oil have been leaking into the boiler furnace.

**RPIG** If something is broken or missing in the lifeboat, what should the First Officer do?

**A** He is to notify the Chief Officer

**RPJS** It is considered a help to have a written working-plan for cleaning personnel. Why?

**A** To know specifically where to clean every day/week/month.

**RPLM** Which of the following cargoes can solidify?

**A** Latex?

**RPSC** The word SHIP is spelled conform the international phonetic alphabet:

**A** Sierra, Hotel, India, Papa

**RPUA** \*Which of following items shall be included in an abandon ship drill?

**A** ensuring that passengers and crew are made aware of the order to abandon ship





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RPUT

Too low oil flow in the fuel oil purifier oil outlet line is caused by:

**A** Broken water seal.

RQDA

When should the Second Officer call the Master?

**A** When anything unusual happens, and 30 minutes before the pilot station

RQDD

The main engine is running steady with an average exhaust gas temperature of approximately 350° C. What would be a typical alarm/slow down setting for the cylinder exhaust gas temperature deviation from the average?

**A** +/- 50° C

RQDE

wire antenna of 12 metres long is probably:

**A** a MF/HF-antenna

RQJY

A new joint is required for a sea water pipe flange and there are no ready made spares. What is the best method for making a new joint from a sheet of rubber insertion?

**A** Measure the flange diameter, PCD and bore using a ruler and callipers and then mark out the jointing. Use jointing scissors and hole punches to cut the new joint.

RQKV

For the VHF-antenna connection is used:

**A** a 50 Ohm resistance coax cable

RQRK

Can you use a common Vapor line for Sulphuric acid and Nitric acid ?

**A** No, they are not compatible.

RREN

Give the meaning of the following symbol:

**A** evacuation slide

RRLK

On the figure 4 possible definitions of the term "ABEAM" are shown. Which one is the correct one?

**A** Abeam is defined as A on the figure

RRRD

The fire control draft on board is called the «safety plan» and shall be posted onboard. In port, a copy of this plan shall in addition be available from somewhere else. Where shall this copy be available?

**A** At the gangway.

RRRG

What is a contingency plan for ships?

**A** Plan for safety preparedness



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RRWD

Which method of oil cleanup is NOT usually allowed?

**A** Using sinking agents

RRYQ

\*Is it necessary to have a visual and audible signal if an automatic sprinkler begins to work?

**A** Yes

RSFL

You are starting to get low on water in the lifeboat. What should you do?

**A** Collect rain water

RSHB

What is the general regulation for pumping over board washingwater according to Marpol ?

**A** The vessel is proceeding at 7 knots or more, is more than 12 miles off land and is in a water depth of 25 metres or more.

RSSX

\*The temperature control system of the main engine crankshaft bearings indicates high temperature. What would be the correct way to open and check the crankcase?

**A** Stop the engine immediately and keep the lube oil pump running for at least 20 minutes before opening the crankcase

RTLE

On oil tankers, the effluent water from an inert gas scrubber and the condensate water which collects in the deck main has which of the following chemical characteristics?

**A** After use

RTMY

Sun rays and light reflected from a bright surface (e.g. sea); can cause damage to the skin and eyes. What is this type of burn called?

**A** Radiation burns.

RTOK

Who is responsible for implementation of protection and environment work on board?

**A** Both master and shipping company.

RTPF

What will you do if you are told to operate unknown mechanical equipment?

**A** Ask your superior for advise before attempting to operate it.

RTQE

Which activity will have the greatest fire-fighting effect in case of a fire?

**A** Extinguishing attempt is started immediately

RTTQ

If the OOW must leave the voyage plan, he should?

**A** Inform the master



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RUEJ** After cleaning and back in service, You observe that the heat transfer is bad. What is the first thing to do?
- A** Check for proper air vent of the exchanger.
- 
- RUQY** VHF channel 6 is:
- A** Inter-ship channel
- 
- RUTJ** Too low oil flow in the fuel oil separator (ALCAP) oil outlet line is caused by:
- A** Bowl opens unintentionally during operation.
- 
- RUYL** After smoking cigarettes they should be disposed of as follows:
- A** Disposed of in an ashtray and ensuring that it is extinguished.
- 
- RVAV** Which emission class is used in the NAVTEX system
- A** F1B
- 
- RVBW** In a closed room with freon leakage, you have to do some work that requires the use of open flame. Can this be dangerous?
- A** Yes, freon reacts with open flame to a poisonous gas (Fosgen).
- 
- RVED** What is the general requirement for closing mechanisms for in- and outlets of all ventilation systems (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.9)
- A** Closing must be possible from outside the spaces being ventilated
- 
- RVED** What is the general requirement for closing mechanisms for intakes and outlets of all ventilation systems (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.9)
- A** Closing must be possible from outside the spaces being ventilated
- 
- RVGU** \*Give the meaning of the following symbol
- A** Start engine
- 
- RVHM** On the figure 4 possible definitions of the term "FORWARD" are given. Which one is the correct one?
- A** Forward is given by C on the figure
- 
- RVYE** What do you understand by the term Long Travelling?
- A** Making the complete crane move fore and aft.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RWGN

The cost for a telephone conversation via the Inmarsat-A system are calculated:

- A** per minute or parts of it

RWGX

Why is it so important to shut off the source of fuel before extinguishing the flames on a gas fire?

- A** To prevent forming a potential flammable gas cloud

RWKT

Are there any exceptions from OPA-90

- A** Yes, transit passage through US waters to a non US port

RWUV

What is advisable for a person entering a padlocked refrigerated room?

- A** He should take the padlock inside the room.

RWUV

What is advisable for a person entering a padlocked, refrigerated room?

- A** He should take the padlock inside the room.

RWWQ

What is the recommended back pressure for a lub oil separator

- A** It depends on the installation

RXCL

What will you do if you are helmsman and the OOW (officer on watch) gives you the order: "Starboard ten"

- A** Put the rudder 10 degrees to starboard

RXFR

Give the meaning of the following symbol:

- A** liferaft

RXKT

All passenger ships are divided into vertical 'zones'. What is the purpose of this?

- A** This is firezones which can be divided from eachother with firedoors. If a fire start in one zone, all firedoors in front and aft of the fire will be closed from the bridge to stop the smoke and fire from spreading.

RXOA

On board passenger ships an abandon ship drill must be performed

- A** every week

RXOA

On board passenger ships an abandon ship drill must be performed:

- A** every week



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- RXRE** The rudder is in hard over position and the propeller has stopped. The ship is turning slowly. What can we do to make her turn faster without increasing forward speed?
- A** Give a kick ahead
- 
- RXRM** How would you clean ceramic tiles floors in the galley, pantry and store rooms?
- A** First wash and then rinse with fresh water from hose.
- 
- RXRO** What is the purpose of the radiotelephony two tone alarm?
- A** Activate bridge watchkeeping receivers and attract the attention of the person on watch.
- 
- RXRQ** When a pollution incident occurs there is a plan for actions to be undertaken. State which of following priority sequences to be considered:
- A** Stop pumps - report - clean up?
- 
- RXTB** Which item among those below is included in the normal equipment of every liferaft ?
- A** one buoyant rescue quoit, attached to not less than 30m of buoyant line
- 
- RXTW** Why do we use nickel-alloyed steel, stainless steel or aluminium in cargo tank construction on gas carriers designed for LNG and LEG?
- A** Because these metals have a very low thermal expansion coefficient and do not burst at extreme low temperatures
- 
- RXWG** The timing of the engine is delayed. The exhaust temperatures are high. How would you expect this to affect the turbocharger?
- A** Increased turbocharger revolutions.
- 
- RYDF** Inert gas should be supplied with an oxygen content of less than:
- A** 5 %
- 
- RYJV** What is the correct lifting technique?
- A** Legs bent, back straight, using leg muscles to lift
- 
- RYML** If you are alone and you see smoke coming from a closed cabin door. What should you do first?
- A** Activate the nearest fire alarm button and advise bridge of the location of the fire
- 
- RYMM** Which of the following requirements regarding on board stability data corresponds to present regulations? (NSCL 4/12.1)
- A** A calculation example showing the use of "KG" limitation curves.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

RYNA

Which item among those below is included in the normal equipment of every lifeboat ?

- A** a searchlight which can work continuously for not less than 3hours

RYOR

We have a problem with surging in the turbocharger. Which of the following could be the cause?

- A** Dirty scavenging air cooler on the air side

RYOX

Which media are used to receive MSI?

- A** All of these.

RYUT

A VHF transmission range is mainly determined by:

- A** the height of the aerial

RYWE

Which of the following detailed explanations should be mentioned in the Training Manual ?

- A** The use of all survival equipment

RYYY

A floating liferaft is capable of withstanding repeated jumps on to it from a height of at least:

- A** 4,50 m

SAGM

After smoking, cigarettes should be disposed off as follows:

- A** Disposed of in an ashtray, ensuring that it is extinguished

SAGQ

The ideal aerial length depends on:

- A** the frequency chosen

SAHK

From where on board can you find out the different types of protection equipment regarding where placed, how much, how many ans.?

- A** The ship's safety plan

SAHK

From where on board can you find out the different types of protection equipment regarding where placed, how much, how many etc.?

- A** The ship's safety plan

SAHL

On the figure 4 possible definitions of the term "STERN LINE" are given. Which one is the correct one?

- A** Stern line is given by A on the figure



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**SAHM** Why is it so important to suck back as much freon liquid as possible from the evaporators, before You stop the compressor?

**A** To avoid liquid coming back to the compressor during start up.

**SAHN** When referring to onboard oil treatments using a centrifuge, what is meant by the term purification?

**A** Separation of two insoluble liquids with different densities, and at the same time removing of solids.

**SAHN** When referring to onboard oil treatments using a centrifuge, what is meant by the term purification?

**A** Separation of two insoluble liquids with different densities, and the removal of solids in the same process.

**SAMO** Is a repairman not comprised by the specification of crew under obligation to public supervision of maritime service?

**A** Yes, if engaged by the owner.

**SAMO** Is a repairman not comprised by the specification of crew under obligation to public supervision of maritime service?

**A** Yes, if engaged by the owner.

**SAOD** The maximum range of a VHF radio-set from ship to ship at sea is:

**A** 20 Nautical Miles

**SAPX** Who are to pay the expenses in connection with public supervision of maritime service?

**A** The employer.

**SBBT** If inspection or repair of the boiler is due, the plant has to be shut down, and the boiler emptied for water. If time is available, which of the following procedures are correct?

**A** The boiler be allowed to cool down by its own after shut down. Then pump the water out.

**SBCL** Which of the 3 alternatives given is correct for a NOT-gate?

**A** Figure 1.

**SBCM** Distress MF communications should normally be operated :

**A** In J3E mode - on simplex basis

**SBGQ** How much time can be saved by use of weather routing?

**A** Impossible to say



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SBMI

What does STCW deal with?

- A** STCW deals with minimum recommendation of education for seafarers and minimum standards for training centre and schools

SBVR

To get proper conversation discipline in maritime radio traffic:

- A** only necessary radio conversations are made in a concise and businesslike way

SBVS

You are about to pass another ship in a close situation. What can happen in this situation?

- A** Due to suction, the two ships will be sucked together

SBXE

Which position is the best to stop bleeding from the nose?

- A** Sitting on a chair, leaning forward, with two fingers pressing the nose together

SBXF

Which main unit determines the increasing/decreasing of the fuel quantity, i.e. controls "the effective delivery stroke" (Bosch type pump)?

- A** Rotation of the plunger by the fuel rack from the governor signal.

SBXF

Which main unit determines the increasing/decreasing of the fuel quantity, i.e. controls "the effective delivery stroke" (Bosch type pump)?

- A** The governor

SBXY

What does this crane signal indicate?

- A** Swing the load in the direction of the signal man's face

SCBL

According to the IMDG code which class of materials can have an extra number on the label to indicate its incompatibility with another material of its class?

- A** Class1

SCCH

What is the validity of a de-ratting certificate

- A** Every 6 months

SCDY

One is sailing on inshore waters with poor visibility and with the use of radar. There must be a continuous watch on VHF-channel:

- A** 13

SCJU

Indicate the correct name for the part marked on the sketch:

- A** Turbocharger





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SCPN

1 GHz is equivalent to :

**A** 1000 000 000 Hz

SCQR

In order to achieve a greater effectiveness when using a permanent system of extinction with gases (for example CO<sub>2</sub>), we must...

**A** Activate the alarm, evacuate the area and seal the place, then activate the extinction system

SCUT

Where do you find regulations concerning washing of crockery and cutlery?

**A** The regulations are a part of the Norwegian Ship Control Legislation regulations, concerning production and serving of foodstuffs.

SCXB

You are on night time duty as navigating officer on a ship under way, when a fire in the crews accommodation is reported. What is the first action you would take?

**A** Sound the fire alarm signal

SDDX

A faulty steam trap on a fuel oil heater can cause

**A** Reduced heat capacity of the heater

SDOU

Two mooring lines are pretensioned equally and have the same length, same breaking strength and same directional load. However, one is made of wire (with a full load elastic elongation of about 1.5 % of its length) and the other made of nylon (with a full load elongation of about 30 % of its length). If a gust of

**A** Wire takes 95 % of the extra load. Rope takes 5 % of the extra load

SDPN

Which international convention deals with fire-fighting equipment etc.

**A** SOLAS

SDPO

If you are ordering chain for use as Chain Stoppers on mooring wires, the length of chain usually recommended for use in each stopper is:

**A** 3.5 to 4.5 mtrs.

SDSA

What does the abbreviation ABC mean in first aid?

**A** Air, Breathing, Circulation.

SDUS

How many Radar Transponders (SART) are required to be carried onboard a ship for use in survival crafts?

**A** 2 on new-builds only. Old ships have to comply by August -95

SDYS

The word LOBITH is spelled conform the international phonetic alphabet:

**A** Lima, Oscar, Bravo, India, Tango, Hotel



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SEBC

The "small diameter line" on a crude oil carrier goes from the pumproom to ....

- A** The shore-side of the cargo manifold valves, port and starboard side

SEDA

What is the correct understanding of the term "Angle of Loll" when applied to ships stability?

- A** The angle the ship will lie when the ship has a negative GM

SELB

What is the name of the line which is used to strip the last amounts of cargo ashore?

- A** Small diameter line.

SELD

During a routine check of one of the auxiliary engines in an UMS operated engine room, a minor leakage on a high pressure fuel pipe is observed. What would be the appropriate action and/or precaution to be taken? (Assume normal operation; 2 gen sets operating and 1 on standby)

- A** Change operation to the third generator set, preparing the original set for repair of the failure and switching to manual mode until repair is carried out.

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- A** Inform the Chief Engineer and the Bridge. Change over to manual mode, switch over

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- A** Inform the Chief Engineer and the Bridge. Change over to manual mode, switch over

SEQK

Which item among those below is included in the normal equipment of every rescue boat ?

- A** one waterproof electric torch suitable for Morse signalling

SERD

A person wearing an anti-exposure suit shall be able to:

- A** perform all duties associated with abandonment, assist others and operate a rescue boat

SEYS

What is the meaning of the term Clarification?

- A** Separation of solid contaminants from a liquid.

SFGC

Which item among those below is included in the normal equipment of every liferaft ?

- A** one daylight signalling mirror with instructions



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- SFGF** This circuit shown is a logic gate with two high input signals, A and B, and one output signal Q. Which type of logic function does the gate provide?
- A** OR gate
- 
- SFIO** What is a proportional band?
- A** 100/amplification
- 
- SGBA** The IMO Standard Marine Communication Phrases are recommended to be used when the ship's Officer is verbally talking to whom?
- A** He wants the OS to train as helmsman today, because they are sailing in open waters and there is not much traffic in the area
- 
- SGBB** Which fire-fighting equipment is most efficient and with least side effects in case of a large fire in the engine room?
- A** Central gas extinguishing system and/or waterfog.
- 
- SGIK** \*The freeboard of a lifeboat, measured from the waterline to the lowest opening through which the lifeboat may become flooded:
- A** should exceed 1,5 % of the lifeboat length when loaded with 50 % of the number of persons the lifeboat is permitted to accommodate, these persons being seated to one side of the centreline
- 
- SGPK** A safety valve is sufficient to prevent a BLEVE.
- A** Wrong, if the valve is wrongly set
- 
- SGWS** Which of the following booklets would you consult to determine the number of persons required on duty while loading leaded gasoline on your tanker?
- A** Oil Transfer Procedures Manual
- 
- SGYJ** Which one of the listed requirements regarding enclosures of totally enclosed lifeboats do not correspond to present regulation? The enclosures shall be provided with:
- A** windows on both sides which can be closed watertight and opened for ventilation
- 
- SGYN** The HP discharge valves sometimes get very carbonized in a very short time and continue to do so even when we change the HP valves very frequently. What might be the reason?
- A** Worn scrapper and piston rings.
- 
- SHDI** Do you always have to notify the National Response Center (OPA-90)
- A** Yes, within thirty (30) minutes
- 
- SHEL** What is the meaning of this symbol?
- A** Muster station



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SHFF	Which one of the listed fire-extinguishing medium is most effective against an open oil fire?
A	Foam.
SHHQ	How is the need for wearing personal protective equipment determined
A	By carrying out a risk assessment
SHNN	What is the minimum number of "international shore connections" that should be provided on vessels of 500 gross tonnage and upwards?
A	1
SHRS	Instructions for onboard maintenance of life-saving appliances shall be easily understood and illustrated wherever possible. Which of the following items do not necessarily have to be included in the instructions according to present regulations?
A	Check list for periodic inspections
SHSJ	*You are the officer of the watch at the bridge of a cargo ship. In the middle of the night, an alarm sounds on the control panel of the fire detection system. It indicates that a detector is activated in the crews accommodation. What is the first action you would take?
A	Sound the fire alarm signal and send the seaman on watch down to inspect and report the situation
SHWX	The recommended distance between parallel tracks (track spacing) in a search for a casualty by a surface vessel varies (amongst other factors) according to visibility and the nature of the target in the IAMSAR Manual. These distances are then normally adjusted for prevailing weather conditions. If
A	- 3.6 nautical miles.
SIAX	The log-in procedure for an Inmarsat-C installation comprises:
A	the choice of the inmarsat-region
SIIH	What duties are imposed on an employee in respect to the Health & Safety at Work Regs
A	To take reasonable care of himself and fellow workers and co-operate with any person with any statutory duty imposed upon him in relating to Health & Safety
SINL	Give the meaning of the following symbol
A	Survival craft portable radio
SIQB	What would be the typical flash point of the lubricating oil in the main lubricating system of a diesel engine?
A	200-240 deg C
SIQB	What would be the typical flash point of the lubricating oil in the main lubricating system of a diesel engine?
A	Above 200 deg C



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- SIUA** The vessel is to anchor with Pilot onboard. Which of the suggested answers most accurately define the main duties of the Officer of the Watch on bridge?
- A** Check the position only
- 
- SIWL** Regular 'updating' of a vessel's position in an Inmarsat-C installation is among others things important:
- A** to guarantee reception of NAVTEX-reports
- 
- SIXI** On which frequency a ship must maintain a continuous watch when sailing in area A2?
- A** 2187,5 kHz
- 
- SJHN** If a trunk type engine has been running for 24 hour without lub oil separator in operation; when restarting the separator what must be the time between discharges to be set
- A** 5 minutes
- 
- SJIH** What is the first action to be taken when the fires suddenly go out in the boiler
- A** call the engineer on watch
- 
- SJIJ** Give the meaning of the following symbol
- A** Survival craft distress pyrotechnic signals
- 
- SJKT** When mustered to an abandon ship drill, what is the first thing you do when entering the muster station?
- A** Pick up a life jacket
- 
- SJKT** When mustered to an abandon ship drill, what is the first thing you do when entering the muster station?
- A** Put on a life jacket
- 
- SJLS** For which of the workshop machinery listed below, can it be considered as safe not to wear protective goggles when operating?
- A** None of the alternatives.
- 
- SJLU** When an overhaul is completed and the compressor is going to be started for a test run, it is important that we:
- A** check that we have an open discharge line all the way to the pressure bottle.
- 
- SJOB** What is the requirements to ventilation ducts of more than 2 metres in length (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.1)
- A** They must be fabricated of non-combustible material



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- SJOG** What is the proper term used to describe a coast radio station that primarily handles chargeable ship-to-shore message traffic of a routine nature?
- A** Public Correspondence Station.
- 
- SJTA** Give the meaning of the following symbol:
- A** lifebuoy with light
- 
- SJUT** What is the meaning of this symbol ?
- A** Lifeboat
- 
- SKCL** On which frequency are navigational and meteorological messages normally sent on the NAVTEX system?
- A** 518KHZ
- 
- SKDI** During operation of the main engine, the heat absorbed by lubricating oil is removed by the:
- A** Lube oil cooler
- 
- SKFS** What shall be done with left over food.
- A** It shall be properly stored and prepared for another meal.
- 
- SKFX** Which of the following are frequent causes of fires in accommodation?
- A** All of the alternatives
- 
- SKGN** In which cases shall sidescuttles in passenger ships be so constructed that they cannot be opened without the consent of the master of the ship?
- A** Where the sills of the sidescuttles are below the margin line
- 
- SKHD** The water cooling space on the turbocharger is damaged and you have no spares. The cooling water must be closed. Which steps would you take to ensure least possible damage?
- A** Dismantle the rotor and assemble the sealing plate.
- 
- SKKP** What long term effect will excessively high temperature have on lubricating oil quality?
- A** Cause oxidation which increase viscosity.
- 
- SKKP** What long term effect will excessively high temperature have on lubricating oil quality?
- A** It will cause the oil to oxidise, increasing the viscosity.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**SKLS** Which item among those below is included in the normal equipment of every lifeboat ?

**A** a survival manual

**SKPM** To receive distress alerting and MSI via an Inmarsat-C set vessels must have:

**A** SES or an EGC receiver

**SLCC** Do you think there is any reduction in the rudder lift force if the propeller is stopped?

**A** Yes, the lift force will be dramatically reduced

**SLGH** Which ships must be provided with an "international shore connection" ?

**A** Any ship of 500 gross tonnage and upwards

**SLGL** By "collect call" is meant:

**A** a call for account of the receiver

**SLGM** On board they want to have a dial-phone call via Inmarsat with the Apollogracht. In the guides the following ID's are found for the Apollogracht: 344320000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:

**A** 1300210

**SLHF** Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms covered by a fixed fire fighting installation. For what purpose does he do this?

**A** Close them to prevent the spread of fire, and allow the extinguishant to be released without time wasting.

**SLHH** Where is OPA-90 applicable

**A** Within 200 nm of US waters including Guam, Hawaii, Alaska and San Juan

**SLKR** What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

**A** Low-pressure cut-out is stuck in closed position.

**SLKR** What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

**A** Low-pressure switch is jammed closed

**SLKR** What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

**A** Low-pressure cut-out is stuck in closed position.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- SLKR** What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?
- A** Low-pressure switch is jammed closed
- 
- SLYO** We have two kinds of turbocharging systems: constant pressure and impulse. The difference between these two can be found in:
- A** The exhaust gas receiver
- 
- SMBG** Via Inmarsat-C a message is sent to an Inmarsat-C mailbox with a positive delivery notification (PDN). The ground station will:
- A** send a PDN, if the message has arrived in the mailbox
- 
- SMBG** Via Inmarsat-C a message is sent to an Inmarsat-C mailbox with a positive delivery notification (PDN). The groundstation will:
- A** send a PDN, if the message has arrived in the mailbox
- 
- SMFK** What must be the first concern of the fire fighting team leader?
- A** Life saving
- 
- SMHG** What do we mean with "dual controlled" fuel pumps when we talk about valve controlled fuel pumps?
- A** Both the suction and spill valves are controlled
- 
- SMKM** What specific publication gives guidance on all safety matters on board a ship?
- A** Code of Safe Working Practice for Merchant Seamen (COSWP)
- 
- SMPN** What is the function of the British Consul in relation to a death on board?
- A** He is informed by the ship/agent, relays information to the RSS, arranges completion of documentation and may assist with having the deceased returned to home country
- 
- MSW** Why is it so important to keep the lub oil viscosity within safe limits?
- A** To keep the oil protective film between moving metal surfaces .
- 
- SMUI** What is the Masters main responsibility when receiving a distress signal from any source?
- A** Proceed at highest speed to the distress source position.
- 
- SMUN** The lubricating oil in the bearing housing at the turbine end of a turbocharger gets very dirty after only a few hours in service. What is the most likely reason for this happening?
- A** Exhaust gas leaking into the oil chamber.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SMWG

\*Which bulkhead is the most efficient to fight against spread of fire?

A Class A bulkhead

SMXY

In the diagram, the depth of water under the keel is indicated by the letter "C". Which bridge instrument would indicate this depth?

A Under keel clearance is given by C on the figure

SNUK

Give the meaning of the following symbol:

A evacuation slide

SNWM

A new cylindrical brass bearing sleeve for a pump shaft is found to be a few millimetres too long for the housing and needs to be adjusted to the correct length. Which will be the best method to use to reduce the length of the sleeve to the correct dimension?

A Remove the excess length using the ship's lathe

SNXR

\*In a distress situation and immediately after the distress signal has been sounded, what next action should be taken by the officer on duty ?

A use the intercom to inform crew and passengers of the reason for the alarm

SOAH

Which class of emission is used for FEC NBDP transmissions ?

A F1B

SOKG

After closing the drain during the blowing procedure for a glass water gauge, the water cock is opened and the water flows to the top of the glass. Then the steam cock is opened and the water flows down and out of the glass; Which of the following statements are correct?

A The water level is between the water cock connection of the boiler, and the bottom of the gauge glass. It is safe to put feed water into the boiler.

SOKH

Who assist the Norwegian Maritime Directorate in the public control of seaworthiness of ships?

A Maritime investigators, The Telecommunications Administration, the Electrical Inspectorate, and other public institutions, Det norske Veritas and other approved survey institutions, other private institutions of foreign countries, the authorities of foreign countries

SOMW

Who shall attend the pre-arrival conference for the cargo operation ?

A All officers who takes part in the operation, preferably also the deck hands.

SOON

If a vessel is to carry a heated cargo, what is the procedure prior loading ?

A Heating coils are to be pressure tested, preferable by the heating medium. Test to be recorded.

SOSQ

Why is it essential that all entries in the OLB are correct?

A It is a public record and is admissible in a UK court of law



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- SOWV** Prior to personnel being allowed to work inside cargo tanks on a liquefied gas carrier the tank atmosphere must be checked. What are the required readings for oxygen content and hydrocarbon gas content of the tank atmosphere before normal entry permits are issued and entry into cargo tanks is
- A** 21% oxygen by volume and 0% hydrocarbon of LEL.
- 
- SPAG** Which part of the float-free arrangement for inflatable liferafts is made to release the liferaft after being automatically inflated during the ship is sinking?
- A** the weak link
- 
- SPBW** Noise level called "the injurious area" starts at:
- A** 100 dB
- 
- SPEH** Due to failure of one of the carbon brushes the excitation voltage is lost on one alternator that is operating in parallel. Will that alternator then:
- A** Completely loose its share of the load causing the auxiliary engine to speed up
- 
- SPEH** Due to failure of one of the carbon brushes the excitation voltage is lost on one alternator that is operating in parallel. Will that alternator then:
- A** Completely lose its share of the load causing the auxiliary engine to speed up
- 
- SPFC** Which of the following temperature sensors does normally give the highest measuring accuracy?
- A** Resistance sensor, Pt100
- 
- SPGA** You will anchor a VLCC at a depth of 80 meters in open water with swell. How much chain will you use?
- A** - 11 shackles
- 
- SPGA** You will anchor a VLCC at a depth of 80 meters in open water with swell. How much chain will you use?
- A** 11 shackles
- 
- SPHQ** When loading a inhibited cargo, which documents must be received prior commencement of loading :
- A** A certificate with information regarding the inhibitor added such as type, oxygen dependence, date added, duration of effectiveness, max adjacent temperature, lifetime and other limitations.
- 
- SPLA** An area A1 is:
- A** an area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available
- 
- SPVV** What is the meaning of organic chemistry?
- A** Organic chemistry are substances that contain of hydrocarbons



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SPWU

Is it compulsory with oil record book onboard gas carriers?

**A** Yes, on all ships that comply with MARPOL 73/78 annex 1 must have oil record book onboard

SPYJ

Who is responsible for the voyage plan?

**A** The Master

SQHQ

What section of the Crew Agreement contains the "Contractual clauses"?

**A** ALC 6

SQJK

Editing (Preparation) of the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc. " is done by:

**A** The Norwegian Maritime Directorate.

SQSQ

How would you check if familiarization training is adequate?

**A** By asking different crew members specific questions relating to the familiarization training

SQUE

Which electronic component or system of components does this graphical symbol illustrate ?

**A** Inverter

SQUE

Which electronic component or system of components is this graphical symbol illustrating ?

**A** Inverter

SQYA

What is meant by the term lapping, in relation to diesel engine cylinder cover valves?

**A** Grind the valve against the valve seat to obtain a uniform sealing surface

SRAU

Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:

**A** have a floor capable of being sufficiently insulated against cold by means of inflated compartments, or by equally efficient means not dependant on inflation

SRBP

This circuit shows a transformer with two windings,  $N(1) = 2000$  and  $N(2) = 1000$  turns, on a common magnetic circuit. Assume that there are no energy losses in the transformer itself. Calculate the output voltage  $V(2)$  when the input voltage is  $V(1) = 100$  Volt.

**A**  $V(2) = 50$  V

SRBU

What is recommended for removing lime and heavy lime deposits?

**A** Acid detergent.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

<b>SRCN</b>	How much water per person is provided in a liferaft equipped with a desalting apparatus?
<b>A</b>	1 litre
<b>SREE</b>	When where the Regulations concerning Safety Measures etc. on Passenger Ships, Cargo Ships and Lighters laid down?
<b>A</b>	15 June 1987.
<b>SROD</b>	On a UK ship where might you get a flag state control inspection
<b>A</b>	In any country by an MCA Marine Officer
<b>SRPA</b>	If you were put in charge of a fire team what is the minimum number of men wearing BA sets that you would allow to enter a smoke filled compartment?
<b>A</b>	2 men
<b>SRRN</b>	Which one of the listed fire-extinguishing medium is most effective against an open oil fire?
<b>A</b>	Foam
<b>SRSF</b>	Which is the "STERN" area, in the figure?
<b>A</b>	Stern is given by C on the figure
<b>SRTC</b>	Are there any restrictions regarding length, breadth or draft in the Panama Canal?
<b>A</b>	Restrictions regarding length and breadth exists. Draft restrictions vary with seasonal changes.
<b>SRTH</b>	You are ready to start crude oil washing of a cargo tank. What measurement(s) must be performed before you start?
<b>A</b>	All the measurements mentioned must be performed.
<b>SRVV</b>	On the figure 4 possible definitions of the term "PORT QUARTER" are given. Which one is the correct one?
<b>A</b>	Port quarter is given by D on the figure
<b>SRXH</b>	When taking a position using the Radio Directional Finder, a correction must be applied to the bearings. What is the purpose of this correction (Half Convergency?)
<b>A</b>	Sidereal hour angle
<b>SSGN</b>	What is the purpose of the "Bowsing tackle" (block and tackle) supplied at each end of the lifeboat?
<b>A</b>	It keeps the boat alongside the embarkation deck so that the tracing pennants can be released



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SSHM

What is a hydrostatic release unit?

- A** A unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metres.

SSMG

When we are taking "ullages", what are we really doing?

- A** Measuring distance from cargo level to ullage point

SSOA

You are the officer in charge of discharging an oil tanker in Corpus Christi, USA. The applicable sections of the U.S. Code of Federal Regulations require that there be current Oil Transfer Procedures available on board. What do the regulations require in terms of the format of, and accessibility to, those Transfer

- A** Posted or available where it can be easily seen and used by crew-members engaged in the discharge operation.

SSOA

You are the officer in charge of discharging an oil tanker in Corpus Christi, USA. The applicable sections of the U.S. Code of Federal Regulations require that there be current Oil Transfer Procedures available on board. What do those regulations require?

- A** Posted or available where it can be easily seen and used by crew-members engaged in the discharge operation.

SSOA

You are the officer in charge of discharging an oil tanker of 15000 DWT in Corpus Christi, USA. Where shall the Oil Transfer Procedure be located?

- A** Posted or available where it can be easily seen and used by crew-members engaged in the discharge operation.

SSOY

What was going to happen at 4 o'clock in the afternoon?

- A** The ship would be due to sail

SSPQ

\*Generally speaking, what is the value commonly recognised as the maximum concentration of oil vapours allowed in the breathing air of a breathing apparatus?

- A** 5mg/m<sup>3</sup>

SSPX

What kind of routine would you follow to make preparations for the next day's menu (frozen meat and fish)?

- A** Chief cook and second cook work together to select provisions for officers and crew, discussing needs and quantities, if necessary.

SSSK

After how many hours would you consider changing the turbocharger bearings, even though all appears to be normal?

- A** 12,000 hours.

SSWK

Which inert gas systems use only gases from the ship's main or auxiliary boilers?

- A** The flue gas plant

SSXM

Personnel in a high voltage switchroom smell rotten eggs. What may this indicate?

- A** Problems with a gas (SF<sub>6</sub>) circuit breaker



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

STBN

What kind of safety equipment must be worn during mooring operations?

**A** All of the mentioned equipment.

STJU

Which one of the listed requirements regarding self-righting partially enclosed lifeboats do not correspond to present regulations? Self-righting partially closed lifeboats shall have:

**A** sufficient number of pumps and bailers

STMG

What is the minimum recommended ratio between stripping capacity and total water put through during bottom washing?

**A** 1.25 times?

STQJ

In the Inmarsat Maritime Communications Handbook one can find information about:

**A** 2 digit code telex services

STQL

What does the abbreviation DSC means?

**A** Digital Selective Call

STRE

If there is never any water in the lubricating oil, why must we add water to the self cleaning separator bowl

**A** To minimise oil losses and prevent the sludge getting too hard

STUQ

The exhaust gas temperature is too high in all cylinders because of:

**A** Charge air pressure is too low.

STYA

When is a machine "securely guarded?"

**A** When it is fitted with a guard or similar device which prevents foreseeable contact

STYA

When is a machine "securely guarded?"

**A** When it is fitted with a guard or similar device which prevents foreseeable contact between a person, his clothing or items held in his hands, whilst it is in operation

SUCA

During ship to ship transfer operations it is common to use the terms primary and secondary fenders. Primary fenders are:

**A** Large fenders meant for floating between vessels and absorbing considerable impact. Example of fender size: L - 4.5 m. Dia. - 3.3 m.

SUFL

\*Give the meaning of the following symbol

**A** Start water-spray



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SUFQ

The vessel has anchored. You are to secure the anchor. How do you do it?

- A** By use of cable stopper backed up by brake with chain slightly slack between stopper and winch

SUKO

When fully loaded, a lifeboat should have a sufficient strength to withstand a drop into the water from a height of:

- A** Not less than 3.0 metres

SUKO

When fully loaded, a lifeboat should have a sufficient strength to withstand a drop into the water from a height of:

- A** not less than 3 metres

SUOY

Which of the following options may be used as a brief summary of how to safely make high voltage equipment accessible?

- A** Disconnect, isolate, earth (ground)

SUPJ

What will happen when you start a centrifugal pump with the delivery valve closed?

- A** The pressure control valve will automatically close, the ventilation valve will open

SUSU

The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

- A** Manning of fire parties assigned to deal with fires.

SVAP

What is the search system pattern called using 1 vessel?

- A** Sector System

SVBG

Proteinic foams have the feature of being?

- A** Of low expansion, viscous and solid, easily contaminated by hydrocarbons

SVEQ

Which frequency is used for MF DSC distress calls

- A** 2187,5 khz

SVIW

\*At least, how often shall life boats be launched with their assigned operating crew aboard and manoeuvred in the water?

- A** Every three months

SVSR

Which of the pressures is the most satisfactory at the suction of an air conditioning freon compressor?

- A** 4.5 bar



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SVUP

The pair of instruments necessary for generator synchronising are:

**A** Voltmeter and synchroscope

SVYO

Why must we never use grinding paste on the seating or on the gliding surface of a needle?

**A** Any remaining grinding paste will corrode on the metal surface and after some time the needle will be damaged

SWAI

Give the meaning of the following symbol:

**A** child's lifejacket

SWCT

What is the flash point of a Class 3.3 substance?

**A** Lower than or equal to 61°C

SWFO

When handling drugs...

**A** Wear skin protection and a facemask.

SWIT

What is considered to be a flammable product ?

**A** A product with flashpoint below 60 ° C.

SWMR

What is an effective means of measuring total dissolved solids in boiler water?

**A** Conductivity test.

SWQC

What does the 1 Engineer want to have done?

**A** He wants the heating coils inspected

SWQI

The circuit diagrams illustrate four different methods of wiring between a Pt 100 temperature sensor and its signal processing electronics. Which of the wiring methods gives the best measuring accuracy?

**A** Figure 1

SWRC

Hand flares and buoyant smoke signals can continue to burn or emit smoke after having been immersed for a period of 10s

**A** Right if the immersion depth is smaller than 100mm

SWRC

Hand flares and buoyant smoke signals can continue to burn or emit smoke after having been immersed for a period of 10s

**A** Right if the immersion depth is smaller than 100 mm





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SWRP

Why is it important to have good list during final draining?

- A To bring the remaining oil to the stripping suction

SWRV

Among working conditions listed below which one is required for every propulsion engine of lifeboats?

- A When the lifeboat is flooded

SWVX

If the temperature decrease, what will happen with the interface in the bowl?

- A Broken water seal, oil outside the top disc.

SWYL

Do you think increased temperature of the mixture would improve the separation of oil and water?

- A Yes

SXAI

Soot blowers should be used in proper sequence so that

- A soot would be swept toward the uptakes

SXAJ

Which international code are regulating what safety equipment a passenger ship must have onboard?

- A SOLAS

SXHQ

Why is temperature control accuracy so important when cleaning lub oil in a conventional separator

- A Small changes in temperature can cause large movement of the interface

SXJJ

In a PID controller we have possibility to change the setting of the Proportional band (P), the Reset time (1) and the Rate time (D). Please indicate which curve shows the typical response to a change in input, if the setting of the proportional band is too wide.

- A Figure 1.

SXPA

How is the 3rd Mate going to arrange the mooring lines?

- A He wants two spring lines, four stern lines and no breasts

SXRU

What is advisable for a person entering a padlocked refrigerated room?

- A He should take the padlock inside the room.

SXRV

How would you know how many people a lifeboat is supposed to hold?

- A The number of persons should be clearly stated on the outside of the boats bow



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- SXTE** You are sailing in shallow water, with 15% Under Keel Clearance. Coming full astern from full ahead, how will your course change be compared to deep water?
- A** The heading will most likely change by a large amount
- 
- SXTH** On area A4 the function "Transmission of ship to shore distress alerts" is mainly based on:
- A** the use of HF DSC and SARTSAT COSPAS Epirbs
- 
- SYAD** What is the separator's intention?
- A** To remove solids, water and sludge.
- 
- SYAI** The most common valves used on an oil tanker are:
- A** Gate valves, globe valves and butterfly valves.
- 
- SYIE** \*A fault in the fire detection and fire alarm systems will be indicated:
- A** By audible and visual signals at the control panel, distinct from the fire signal
- 
- SYIP** Which of the following actions will most effectively prevent fire in a cabin?
- A** Ensuring that all persons avoid smoking in bed.
- 
- SYNP** \*Give the meaning of the following symbol
- A** Fasten seat belts
- 
- SYPG** A proper working of the 406 MHz Cospas-Sarsat EPIRB can be tested with:
- A** the testing function of the device
- 
- SYPY** Crewmen are carrying out maintenance work in the engine room on overtime. The work does not affect machinery operation. At the end of normal working hours, what should the Engineer on Duty do?
- A** Continue with manual operated engine room until the maintenance work is finished
- 
- SYPY** Crewmen are carrying out maintenance work in the engine room on overtime. The work does not affect machinery operation. At the end of normal working hours, what should the Engineer on Duty do?
- A** Continue with manual operated engine room until the maintenance work is finished.
- 
- SYSO** The breaking strength of the painter in a liferaft permitted to accommodate 15 persons is at least:
- A** 10 kN



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

SYWS

How can we maintain necessary NPSH?

**A** By control of liquid flow

SYXR

Correct start up procedure of an oil fired boiler is that the air fan is running for some time, before oil is supplied and ignition occurs. What is the reason for this?

**A** For safety reasons, to ensure that all explosive atmosphere inside the boiler is removed.

SYYL

On a Chemical Tanker having 2 foam tanks for deck monitor use the foam quality has been found to have deteriorated. A new supply of foam is ordered. Your usual chandler does not have the required quantity of foam in one type and offers 2 types of foam instead, one for each tank. You would:

**A** Reject the offer?

TAFD

At what temperature should the meat and fish freezers be maintained?

**A** - 20° C

TAGC

Which of the following statements concerning SART COSPAS Epirbs is true ?

**A** The location of the beacon is determined by Doppler shift measurement

TAHA

Which item among those below is included in the normal equipment of every liferaft ?

**A** one (two for a 13 person accommodation) buoyant bailer

TAIP

What is the period of validity of the Safety Management Certificate

**A** 5 years

TAKH

What kind of permanent documentation is required for personnel assigned specific duties and responsibilities related to cargo or cargo equipment on , for example, a liquefied tanker?

**A** A tankerman certificate

TAKJ

Which one of the listed requirements regarding abandon ship and fire drills do not correspond to present regulations?

**A** On all short international voyages, muster of passengers shall take place as soon as possible after departure

TALF

Select the right send and receive frequencies for sending a ship/ship MF-DSC message:

**A** TX: 2177.0 kHzRX: 2177.0 kHz

TAQH

What is the primary responsibility of a watch-keeping engineer?

**A** To ensure safe and efficient operation.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TASR

If a chemical tanker has a single tank of 3000 m<sup>3</sup> or more what will apply ?

- A** This tank must be inerted if carrying a flammable product (Flash Point<60°C).

TAVB

When ordering foam for restocking of the foam tanks on a Chemical Tanker, and regular protein foam is offered, you would:

- A** Reject it?

TAXN

When muster to a lifeboat drill, what is the first thing you do when entering the muster station?

- A** Put on your life jacket.

TBAY

Which item among those below is included in the normal equipment of every lifeboat ?

- A** a buoyant bailer and two buckets

TBGU

What does it mean in relation to the Seamen's Act that no collective wage agreement applies to the employment relationship?

- A** That the Seamen's Act applies in full

TBSL

What should be observed concerning a ship's water tight integrity?

- A** That all vessel's water tight ramps and doors are locked and secured at sea.

TBUY

After starting a freon compressor, how long should you wait before opening the oil separator return valve?

- A** After the separator shell has warmed up.

TBVW

How does the maximum oil film pressure in a white metal journal bearing operating under full fluid film conditions compare with the pressure of the lubricating oil supply system?

- A** Greater than the pressure in the lubricating system.

TBXU

A Cargo Ship Equipment Certificate will be issued for :

- A** A period not exceeding 24 months

TBXU

A Cargo Ship Equipment Certificate will be issued for:

- A** A period not exceeding 24 months

TCFW

What is the purpose of introducing inert gas into each cargo tank.

- A** To control the tank atmosphere by introducing the required inert gas.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TCGV	After checked for open airway, given the first two inflations and checked the pulse to make sure that the heart is beating, what is the rate of inflations given until natural breathing is restored ?
A	12 - 16 times per minute
TCQW	What does the term "Hard a Starboard" or "Hard to Starboard" mean?
A	Put the rudder full starboard.
TCQW	What does the term "Hard a Starboard" or "Hard to Starboard" mean?
A	Put the rudder full starboard.
TCQX	The vessel is to leave anchorage. You will heave up the anchor but how and to whom will you report the status of the anchor?
A	To the master according to his instructions
TCUD	Cargo Gear/Cranes should at regular intervals be thoroughly examined and load tested by a recognised company/yard. How often should such examination/load test take place?
A	- 5 years.
TCUD	Cargo Gear/Cranes should at regular intervals be thoroughly examined and load tested by a recognised company/yard. How often should such examination/load test take place?
A	Every 5th year.
TCYE	According to the rules of GMDSS vessels equipped for all sea areas have to be provided with:
A	406.0 MHz Cospas-Sarsat EPIRB
TDJH	When should voyage planning be done?
A	Prior to sailing
TDKX	It is important that the brake holding capacity of a self stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake
A	100 Tons.
TDKX	It is important that the brake holding capacity of a self-stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake
A	100 Tons.
TDPX	What legal powers does the Enforcement Unit of the MCA have?
A	Same powers as Marine officers in that they can detain a vessel, conduct an inquiry into an incident/accident and start legal proceedings against the persons involved



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TDVP

At present the MF/HF transmitter often has an automatic aerial turning unit. Should this fail:

- A** Its always possible to put the turning unit in a fixed position, so the MF distress frequencies can still be used

TDVR

According to the rules of GMDSS the frequency 2187.5 kHz is used for:

- A** alerting

TDWO

As a fire fighter, what should you always consider when fighting a fire in a confined space?

- A** The confined space always has six sides

TEDC

On the figure 4 possible definitions of the term "MIDSHIPS" are given. Which one is the correct one?

- A** Midships is given by B on the figure

TEEY

Indicate the correct name of the tool on the sketch:

- A** Drill press

TEFQ

Water hammer is a shortlasting pressure peak travelling along the pipe. How can it be avoided in a cooling water system?

- A** Operate valves gradually

TEFS

When paralleling two alternators they must have:

- A** All of the mentioned alternatives.

TEIE

When using a buoy as an aid to navigation, which of the following should always be considered?

- A** The buoy may not be in its charted position

TEJW

On the figure 4 possible definitions of the term "DRAUGHT" are given. Which one is the correct one?

- A** Draught is given by D on the figure

TETA

Simple gauge glasses for indicating the boiler water level, such as the one shown here, are often fitted to low pressure boilers. What would be a reasonable schedule for blowing through the gauge glasses?

- A** at the beginning of every watch

TETA

Simple gauge glasses for indicating the boiler water level, such as the one shown here, are often fitted to low pressure boilers. What would be a reasonable schedule for blowing through the gauge glasses to make sure they are reading correctly?

- A** at the beginning of every watch



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- TFDX** You are going to enter a tank to lift out some sediments. What kind of permits need to be issued before entering?
- A** Enclosed Space Entry Permit and Cold Work Permit.
- 
- TFGO** Give the meaning of this symbol:
- A** LLebuoy with light and smoke
- 
- TFHH** An attempt is made to remove a ball bearing from a pump shaft using a hydraulic cylinder type bearing puller. It is noticed that the puller legs are starting to bend but there is no sign of the bearing moving. What action should be taken?
- A** Remove the puller and try and warm up the bearing and cool down the shaft a little before trying the puller again.
- 
- TFKV** Select the right send and receive frequencies for sending a DSC 'distress alert' in the MF band:
- A** TX: 2187.5 kHzRX: 2187.5 kHz
- 
- TGBK** The self contained air support system on a totally enclosed lifeboat is designed to provide safe and breathable air with the engine running for a minimum of how many minutes?
- A** 10 minutes
- 
- TGER** What are the prerequisites for a CBA (Collective Bargaining Agreement) to be applied to service on NIS ships?
- A** That the CBA expressly states that it applies to NIS ships and is subject to Norwegian laws and courts of law unless courts of another country is explicitly mentioned.
- 
- TGHE** Which provision has special bearing on the test that you have at this very moment?
- A** The relevant regulations' Section 8.
- 
- TGNC** Define the acronym GMDSS.
- A** General Mundial Distress and Safety System.
- 
- TGRL** As part of the regular maintenance for a paramagnetic oxygen analyser used for measuring the oxygen content of exhaust gas it is important to keep the sample line filter as clean as possible. Why is this necessary with this type of instrument?
- A** Pressure variations in the sample chamber can cause errors so restrictions must be kept
- 
- TGVK** In ships stability what is understood by the term "In stable equilibrium"?
- A** Stable equilibrium means the buoyancy force upwards and the force of weight
- 
- TGWD** We must clean the spots of oil on hot surfaces because:
- A** all the answers are correct



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TGXW

The smoke detector (fire indicator) indicates fire in a cargo hold loaded by general cargo. What first action should be taken?

- A** Close the ventilation system and other openings to the hold in order to choke the fire

THAN

A 406 MHz Cospas-Sarsat EPIRB that transmits is:

- A** always immediately detected by the satellites concerned

THBE

The button or switch "dimmer" of a mariphone serves:

- A** to regulate the light

THOS

Give the meaning of the following symbol

- A** EPIRB

THQB

Which one of the listed requirements regarding the launching and recovery arrangements for survival crafts corresponds to present SOLAS regulations?

- A** Means shall be available to prevent any discharge of water on to survival crafts during abandonment.

THXS

The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which one of the following objects do not have to be explained in detail in the manual according to present regulations?

- A** The use of onboard communication systems

THXV

You wish to send an e-mail using the Inmarsat-C installation. The message has to be composed:

- A** in ASCII

TIFE

A lifejacket has sufficient buoyancy and stability to lift the mouth of an unconscious person at a minimum of:

- A** 120 mm above the water (in calm water)

TIFL

What Class notation denotes an oil tanker, combination carrier, chemical tanker, bulk carrier or ore carrier considered suitable for sea-going service, built or accepted into class in accordance with the society's rules and regulations, maintained in good and efficient condition, having on board anchoring and mooring

- A** - 100A1ESP.

TIJL

How do we recognize a leaking fuel injection valve during testing?

- A** If we have a sudden drop in pressure after the valve is supposed to be closed, this is caused by a leak

TIJL

How do we recognize a leaking fuel injection valve during testing?

- A** The pressure falls off on the pressure gauge when trying to hold the pressure in the





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**TIKJ** Read the text in the frame before answering the question: What is regarded as a threat to lives at sea and the marine environment?

**A** Bad management and poorly maintained old ships over several years have proven to be fatal

**TIMW** What is understood by the term, "The Lee Side"?

**A** The side from the wind.

**TIPH** At which temperature should refrigerated cargoes be carried?

**A** As stated by shipper?

**TIQA** Which item among those below is included in the normal equipment of every rescue boat ?

**A** one whistle or equivalent

**TITO** According to the rules of GMDSS, on behalf of a safe navigation, continuous listening service must be maintained on mariphone channel:

**A** 13

**TIXV** Which chapter of the Seaworthiness Act is named Responsibilities of shipmaster and shipowner?

**A** IX

**TJCM** The economizer is used for

**A** Heating of the feed-water

**TJEO** What should you do with the ashes from your vessels incinerator which had burned garbage containing plastics?

**A** Discharge to a shore facility only

**TJJI** Which one of the listed requirements regarding rescue boats do not correspond to present regulations? Rescue boats shall:

**A** have self-bailing arrangements

**TJKB** Which type of call will be sent by a ship sighting another ship in distress which is not itself in position to transmit a distress alert ?

**A** Distress relay call

**TJQW** What does Solas 74,Chapter II-2, regulation 20 refer to as to notices on board?

**A** Fire control plans.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TKAB

The mode J2B is used:

- A** for radiotelex-traffic in the MF/HF bands between ship and shore stations

TKBU

Where in a passenger ship is furniture, due to fire protection, to be kept to a minimum? (SOLAS II-2/34.6)

- A** In stairways and corridors

TKED

Which international organization is preparing conventions and rules for seafaring nations?

- A** International Maritime Organization (IMO)

TKFX

What is the main purpose of a radio transmitting installation onboard:

- A** to enhance the safety of lives at sea

TKGC

Which among the following list is particularly required for a totally enclosed lifeboat ?

- A** access hatches capable of being opened and closed from both sides

TKGR

During a scavenge port inspection of a diesel engine the piston rings on all units were seen to display the signs of the early stages of microseizure. What action should be taken to ensure that the progress of the microseizure is stopped and the rings recover?

- A** Increase cylinder oil consumption, determine fuel quality and readjust the fuel oil purifiers

TKLD

Shipboard Emergency Drills must be carried out at least (OPA-90)

- A** Once a month

TKRN

What kind of extinguishing-remedy would you choose to put out an electrical fire?

- A** Dry extinguishing remedy.

TKTI

How soon after an accident, must it be reported to the MAIB?

- A** Within 24 hours, or within 14 days in relation to serious injuries

TLDL

The number of frequencies on which a MF/HF-DSC distress alert multi-frequency call attempt can be transmitted is:

- A** 6

TLEF

Is it permitted to load fully refrigerated propane directly onto a fully pressurised LPG carrier without additional conditioning of the cargo or cargo spaces?

- A** Yes if the cargo compartment is designed for temperature down to -48oC



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TLKF	Two of the ASTM tables give long tons and metric tonnes pr. U.S.BBLs in regards to actual API. Which two tables?
A	Table 11 and 13.
TLNN	In Which publication will you find the working frequencies of coast stations?
A	The ITU List of Coast Stations
TLPT	A common expression is for example 2 across. What does this mean.
A	CT2, WT2 port, WT2 starboard.
TLPV	What does it mean if the capacity to a centrifugal pump is given from the manufacturer to be for example 4000m <sup>3</sup> /h at 120mlc.
A	4000m <sup>3</sup> /h at 120 meter liquid column. (delivery head).
TLRO	Chemical burns in eyes or on the skin can cause severe damage. Some chemicals may be absorbed through the skin and cause widespread and sometimes fatal damage within the body. What is the first main treatment if someone is a victim of chemical burns?
A	Remove any contaminated clothing and flood the affected area with slowly running water. Make sure that the contaminated water drains away freely and safely.
TLRP	Operation of eductor- what is correct?
A	According to the specific eductor's performance curve.
TLTI	If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. When performing ECC, where do you place your hand on the casualty's body?
A	Place the heel of one hand, two finger breadths above the bottom of breastbone. Cover the hand with the heel of the other hand.
TMEE	What is the recommended back pressure for a lub oil separator
A	It depends on the installation
TMFC	Centrifugal pumps and displacement pumps differ in several characteristics. Which of the following statements regarding a centrifugal pump is correct?
A	It is important that the rotation direction is correct to avoid dry running.
TMMM	When stowing a container vessel, what should be considered when assessing the potential effects on the vessel's torsion?
A	Distribution and weight of the containers?
TMQK	What is the SOLAS definition of deadweight?
A	Total weight in tons of cargo, equipment, complement, stores and supplies on summer freeboard in saltwater



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TMRE

When ordering tinned peaches, which unit of measurement would you use?

- A** Tins of 850 g each

TMSD

Which of the following raw materials can help lower the cholesterol content in the blood?

- A** Fatty fish

TMVR

During replacement of the diesel engine cylinder cover following maintenance some manufacturers recommend that different torques are applied to some of the cylinder cover stud nuts. Select the option which is most likely to be the reason for this?

- A** Temperature variations across the cylinder cover result in uneven thermal loads on the

TNAU

Which one of the following combustible materials involves a " class A " fire ?

- A** Wood

TNBS

Having boarded the liferaft, how do you release the painter?

- A** Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

TNJV

Hand flares shall be so designed as to burn or emit smoke:

- A** continuously after having been immersed for a period of 10 seconds under 100mm of water

TNLK

Would there ever be the need for two lookouts on the Bridge watch?

- A** Because the Captain expects fog early in the morning

TNLM

When using a diskscrubbing machine where would you place the electric cord?

- A** Behind one's back and over one of the shoulders.

TNOD

\*Could a lift be considered as an escape route from the engine room ?

- A** No

TNOX

What is the inherent danger in welding/cutting in piping containing freon?

- A** Development of nitrous gases?

TNPO

An area A3 is:

- A** an area excluding sea areas A1 and A2 within the radiotelephone coverage of at least one Inmarsat geostationary satellite in which continuous alerting is available



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- TNPQ** A standard outside micrometer requires regular maintenance, including calibration, in order to ensure accuracy of measurement. How is the accuracy of this type of instrument normally checked? Select the answer from the options given.
- A** By measuring a standard gauge block or rod at a common temperature.
- 
- TOCE** During test and/or maintenance work of the CO2 system affecting the release system, precautions to ensure that the gas is not released into the engine room due to a mistake are to be ensured. What precautions should be taken?
- A** The main supply line to be blanked off prior to the work.
- 
- TOHK** Sanitary-, ballast-, bilge- or general service pumps may be accepted as fire pumps provided: (SOLAS II-2/4.3.2)
- A** They are not normally used for pumping oil
- 
- TOIX** What do you think would be the most likely cause of high discharge pressure from a freon compressor?
- A** Blocked condenser.
- 
- TOPM** The minimum number of lifebuoys required for a cargo ship cannot be less than:
- A** 8
- 
- TORA** What are the duties of the master if a seafarer dies in service on board?
- A** The master shall notify next of kin/ Norwegian Consulate - arrange for burial/ repatriation of coffin/ashes - and maritime inquiry
- 
- TOTU** when installing a new water gage glass you should secure the bolts from
- A** centre, alternately towards each end
- 
- TOVL** Which of following items shall be included in an abandon ship drill?
- A** Checking that lifejackets are correctly donned.
- 
- TPCA** \*Give the meaning of the following symbol
- A** Start air supply
- 
- TPDU** When considering instrumentation systems, what is a typical symptom of a fault with the span of an instrument?
- A** Zero-point is accurate, but 100% input is not giving 100% output
- 
- TPDV** You are serving on a 5 year old chemical tanker. You are called upon to order a portable blower for ventilation of DB tanks, cofferdams & pipe tunnels prior entry & during inspection. You would order a blower of capacity:
- A** Able to effect a complete change of air of the space being ventilated 16 times an hour?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TPEO	Very roughly, the gas mixture from Crude Oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Lower Flammable Limit of Crude Oil when measured as a percentage volume in air?
A	1 to 2%
TPGI	During inspection and calibration of a cylinder unit, the liner is found to be worn in a cloverleaf pattern with maximum wear midway between the lubrication points. What action is necessary to rectify the problem?
A	Increase the jacket cooling water temperature to avoid the sulfur dew point
TPHC	Which item among those below is included in the normal equipment of every lifeboat ?
A	a first-aid outfit in a waterproof case
TPLC	The accuracy of an Inmarsat-E positioning-system is:
A	200 meters
TPLE	How many thermal protective aids are required to be carried on passenger vessels with open lifeboats?
A	One for each person on board who is not provided with an immersion suit
TPNT	Settlement of disputes, not belonging to the category of the NIS Act ?6, outside Norway between the master and any of the crew regarding wages, the ship service or the employment relationships in general shall be brought before:
A	The Norwegian Consulate
TPNT	Settlement of disputes, not belonging to the category of the NIS Act, outside Norway between the master and any of the crew regarding wages, the ship service or the employment relationships in general shall be brought before:
A	The Norwegian Consulate
TPXQ	What is likely to be the cause of black smoke from a diesel engine exhaust seen at the funnel?
A	Incomplete combustion of the fuel.
TPXQ	What is likely to be the cause of black smoke from a diesel engine exhaust seen at the funnel?
A	Incomplete combustion owing to wrong mixture of air and oil.
TQCW	If you were put in charge of a fire team what minimum number of men wearing a breathing apparatus would you allow to enter a smoke filled compartment?
A	2 men
TQLY	What is the purpose of the "small diameter line" on a crude oil tanker?
A	Make it possible to drain to shore the remaining cargo in the ship's lines and pumps, after the discharging is completed



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TQTJ

When a low pressure distilling plant is operated with less than the designed vacuum, the:

- A** Heat level rises

TQWY

When using corrosive chemicals for cleaning purposes, should you:

- A** Wear protective goggles, gloves, coverall, footwear and mask.

TRAE

Describe the documental process of discharging a seaman

- A** The seaman signs in section b) of the appropriate ALC form (ALC1a, ALC 1b or ALC 1c as appropriate), the Master signs below in section c) of the crew agreement. Completes the relevant information in the seaman's discharge book, signs in the appropriate co

TRAF

If you have to carry out hot work close to a smoke detector in the engine room, what precaution(s) should be taken?

- A** Notify the Master, Deck officer on duty and the Engineer on duty, the loop for this special sensor to be switched off and take normal precautions for hot work

TRFB

A Class divisions in ships are constructed so that they are capable of preventing the passage of smoke and flame to the end of a standard fire test held for:

- A** 60 minutes

TRQA

When keeping a lookout, what would be the correct understanding of the question "What is the aspect of the other ship"?

- A** Weight of the ship including fixed and permanent equipment, less cargo, complement, passengers, stores and supplies

TSEM

Under way to discharging port temperature tests indicate fire in a hold loaded with coal. What is the first action to be taken?

- A** Close all air ventilators and other openings to the hold in question

TSJG

A clogged / dirty lube oil filter can be detected best by:

- A** The pressure drop across the filter.

TSKA

Why is it impossible to have a lifeboat drill at present?

- A** Because the ship is leaving after sunset the following day

TSKB

Secrecy in maritime radio traffic means that:

- A** received messages, which aren't intended for own ship are not passed on

TSLU

The purpose of a VHF-installation onboard is in the first place:

- A** To enhance safety in general



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- TSLV** Each ship fitted with a radiotelephone station shall listen on the distress frequency during navigation, for how many hours a day according to the regulations?
- A** 24 hours
- 
- TSMU** Before entering tanks and / or enclosed spaces - what should be done?
- A** All of the alternatives together.
- 
- TTBT** If a shaft of a centrifugal pump shows excessive wear by way of the stuffing box, is this caused by :
- A** Excessive heating caused by over tightening of the gland packing.
- 
- TTGT** What is the daytime signal to be shown when the vessel is at anchor?
- A** He has disengaged the windlass and put the brake on
- 
- TTGW** What will You do if the purifier starts to vibrate, or has heavy vibrations?
- A** Stop the purifier immediately. Check the bowl for heavy side, deposits, bearings, housing, and the spindle for damage.
- 
- TTGW** What will You do if the purifier starts to vibrate, or has heavy vibrations?
- A** Stop the purifier immediately. Check the machine for fouling or mechanical damage. Do
- 
- TTHL** A lifejacket or immersion suit light has a luminous intensity of, and is capable of working at minimum for a period of:
- A** 0,75 candelas (about 0,6 mile range at normal meteorological sight), 8 hours
- 
- TTQU** Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?
- A** Keep the floors and decks free from fat and grease.
- 
- TUBR** If the temperature decrease, what will happen with the interface in the bowl ?
- A** Broken water seal, oil outside the top disc.
- 
- TUBT** Which of the following actions will most effectively prevent fire in a cabin?
- A** Ensuring that all persons avoid smoking in bed.
- 
- TUEB** On the figure 4 possible definitions of the term "FORECASTLE" are given. Which one is the correct one?
- A** Forecastle is given by B on the figure





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TUFA

\*What precautions are necessary to prevent soot fires in the exhaust boiler ?

A All the mentioned alternatives

TUKT

What is Inert gas ?

A It is a gas containing insufficient oxygen to support combustion of hydrocarbons

TUNG

OPA-90 is referring to a Qualified Individual (QI)

A QI is an authorised individual, situated in the US, and contracted by the owner or operator of the vessel

TUSK

When should the watch-keeping engineer inform the bridge that the main engine is ready for manoeuvring?

A Once the engine is properly prepared and tested and the engine room is correctly

TUSK

When should the watch-keeping engineer inform the bridge that the main engine is ready for manoeuvring?

A When the machinery spaces are in the manned condition.

TVHI

Regular 'updating' of a ships' position in an Inmarsat-C installation is necessary

A to have the correct position in case of accidents

TVSI

The transmitting range of an HF transmitter is mainly determined by:

A the time of day in relation to propagation

TVTB

During UMS rounds, a duty engineer notices that the fuel oil overflow observation glass is full of oil. Should he:

A Stop all F.O. transfers and other fuel operations immediately and check all fuel tank levels.

TVTB

During UMS rounds, a duty engineer notices that the fuel oil overflow observation glass is full of oil. Should he:

A Stop all F.O. transfers immediately, and inform the CE.

TVTC

The altitude effect of the reflection of radio waves in the ionosphere on the transmission range also depends on:

A the day/night situation

TVWK

What is the correct understanding of the term "Bottlescrew"?

A He wants all the lashings tightened and two extra chains fastened to each container



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- TVWN** The main engine is running steady. What is the normal slow down temperature for scavenge air boxes "Fire alarm"?
- A** 120° C
- 
- TVXB** \*Which of the following preventive actions are required by the International Maritime Dangerous Guide Code?
- A** All these actions are required
- 
- TVXB** \*Which of the following preventive actions are required by the International Maritime Dangerous Guide Code? Actions relating to the packing of the dangerous goods.
- A** All these actions are required
- 
- TVYV** It is recommended to have special dirt-absorbing mats inside all doors leading to the decks and the engine. Why?
- A** Helps keep accommodation floors clean longer.
- 
- TWYI** Fire protected lifeboats when waterborne should be capable of protecting its full complement when subjected to a continuous oil fire that envelops the boat for a period of not less than how many minutes?
- A** 8 minutes
- 
- TWND** As a part of the preparation for bunkering, we are to empty the fuel oil overflow tank before the bunkering. Why?
- A** In case of an overfilling.
- 
- TWOB** New MARPOL regulations came into effect from July 93 stating that the previous instantaneous rate of discharge of oil content (60 liters per nautical mile) was changed to:
- A** 30 liters per nautical mile
- 
- TWPS** Among working conditions listed below which one is required for every propulsion engine of lifeboats?
- A** Propeller disengaged and ahead or astern propulsion
- 
- TWRH** According to basic principles regarding fire protection the ship is to be divided in zones by structural and thermal boundaries. (SOLAS II-2/2.2.1)
- A** In main vertical zones
- 
- TWRH** According to basic principles regarding fire protection the ship is to be divided in zones by structural and thermal boundaries. Which? (SOLAS II-2/2.2.1)
- A** In main vertical zones
- 
- TWRI** What is the definition of Mercaptans?
- A** Keep a low pressure in the tanks at all times at sea and in port (periods of gas-freeing excepted)



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TWSG

Which item among those below is included in the normal equipment of every liferaft ?

- A** six hand flares

TWSY

Before a mariphone is installed on board:

- A** a license must be issued

TWTQ

The maximum height that a pilot should be required to climb on a pilot ladder before reaching the deck or stepping onto an accommodation ladder platform is:

- A** 9 mtrs

TWVL

The main purpose of a mariphone onboard is:

- A** to enhance safety

TXIB

You are Sen.Off.Deck on a laden tanker. You have just been in a collision, and have a big leakage under waterline. What should you do to reduce the pollution as much as possible?

- A** Level in the tank to be reduced as much as possible to reduce/stop any further oil spill.

TXJY

Welding and use of open flames on board tankers( without COW and IGS) in operation are subject to regulations laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo

- A** All cargo tanks, pump rooms and cofferdams shall be examined by two type approved explosimeters.

TXKL

What is the main advantage of a positive pressure breathing apparatus?

- A** If the face mask has a leak toxic fumes/smoke would still not enter the mask

TXLI

After smoking cigarettes they should be disposed of as follows:

- A** Disposed of in an ashtray and ensuring that it is extinguished.

TXMD

\*What is the minimum volume of air contained in the cylinders of a SOLAS compliant self-contained compressed-air operated breathing apparatus (SCABA)?

- A** 1200 litres

TXNC

The satellite orbit in the Inmarsat system is:

- A** geostationary

TXTT

Which frequency is used for MF DSC distress calls

- A** 2187,5 khz



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TXUR

What is the main difference of deep well and submerged pumps?

- A** The main difference is that deep well pumps are connected to the motor with a long shaft and submerged pumps have both pump and motor submerged down in the tank

TYDR

What is most important when people are working in tanks or enclosed spaces?

- A** Postpone the inspection until the correct oxygen content can be achieved

TYDR

What is most important when people are working in tanks or enclosed spaces?

- A** That they are kept under constant surveillance.

TYEQ

\*A rocket parachute flare must have a rate of descent of not more than

- A** 1m/s

TYFI

What does this crane signal indicate?

- A** Raise the boom.

TYHB

A common expression is for example 2 across. What does this mean.

- A** CT2, WT2 port, WT2 starboard.

TYHW

Why should water ballast not in general be carried in tanks intended for oil fuel in passenger ships?

- A** Risk for pollution

TYIT

Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

- A** Check that the painter is made fast to a secure point and that the sea below is clear

TYIV

On the figure 4 possible definitions of the term "TUG TOWING LINE" are given. Which one is the correct one?

- A** Tug towing line is given by D on the figure

TYPE

Which one of the following materials belong to Class 6.1 according to the IMDG code?

- A** Toxic substances

TYQG

Before entry into any enclosed space on a liquefied gas carrier (cargo tank, hold space, etc.) it should be properly ventilated and aerated. What is the required oxygen content reading that is required on an oxygen meter before personnel enter the tank or space after aerating?

- A** The oxygen content shall be measured to 21% by volume



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

TYRF

Name some liquefied gases that can be condensed against water.

**A** Propane, Butane, Isobutane, Ammonia and some chemical gases as VCM, Propylene and Butadiene can be condensed against water

TYXA

\*Generally the fixed sprinkler fire extinguishing system will be:

**A** Wet pipe system

UABH

What is the "Dead Ship Condition"?

**A** "Dead Ship" means that the machinery and boilers are inoperational due to lack of

UABH

What is the "Dead Ship Condition"?

**A** Machinery and boilers out of operation due to lack of electric power

UACB

Which of the following items is essential and should always be kept in stock?

**A** Salt

UADA

Which food group contains the most calcium per 100 grams of edible product?

**A** Dairy products

UADA

Which food group contains the most calcium per 100 grams serving?

**A** Dairy products

UAGL

The word SATCOM is spelled conform the international phonetic alphabet:

**A** Sierra, Alfa, Tango, Charlie, Oscar, Mike

UAHF

When you light a fire in a boiler, you must always

**A** Use a proper torch

UAIF

How often is it necessary to strip off the floor polish completely?

**A** It depends on wear and tear, but approximately every 12 - 18 month.

UANC

What do you think would be the most likely cause of high discharge pressure from a freon compressor?

**A** Blocked condenser.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- UAXF** Electric arc welding is to be carried out in the machinery spaces other than the workshop. Which of the alternatives below would be the correct procedure for the connection of the "return" cable to the welding set?
- A** Any of the listed alternatives.
- 
- UAXV** Which one of the listed requirements regarding portable radio apparatus for survival crafts do not correspond to present regulations?
- A** Transmitter and receiver to be tested with intervals of not more than one month
- 
- UBHE** Which of the following detailed explanations should be mentioned in the Training Manual ?
- A** The hazards of exposure and the need for warm clothing
- 
- UBKP** Which type of pump is best suited to use with an oily water separator?
- A** Rotary positive displacement (mono type).
- 
- UBKW** What is class "A" division
- A** Bulkhead constructed of steel, suitably stiffened and insulated so as to be able to meet a prescribed fire test of one hour duration
- 
- UBQJ** When the engine room crane is to be utilised for lifting or lowering a piece of equipment to the lower decks through access hatches designed specifically for the purpose, there are certain measures that should be taken. What are they?
- A** All of the listed alternatives.
- 
- UBQJ** When the engine room crane is to be utilised for lifting or lowering a piece of equipment to the lower decks through access hatches designed specifically for the purpose, there are certain measures that should be taken. What are they?
- A** Securely rope off the area around open hatches and post notices at the site.
- 
- UBSU** What do you think would be the most likely cause of too low suction pressure in a freon compressor?
- A** Too little gas in the system.
- 
- UBVG** What are the duties of engine room ratings forming part of an engine room watch?
- A** To assist in the efficient and safe watchkeeping.
- 
- UBYW** Who is responsible for the number and the position of any tugs to be used during a mooring operation?
- A** The Master
- 
- UCDU** The extinguishing agent which can be applied on any fires of class A, B, or C is:
- A** Multipurpose powder



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- UCEW** Compressed air for instrument and control purposes needs to be of high quality. In order to condition the air filter modules are usually fitted to remove the contaminants. If there is evidence of oil carry over to the final elements in the instrumentation air system what is the most likely cause?
- A** The coalescer module is saturated and requires renewal.
- 
- UCWT** What are the two basic types of oil tanker?
- A** Crude oil and refined products.
- 
- UDAD** Which one of the listed requirements regarding life-saving appliances corresponds to present regulations?
- A** All prescribed life-saving appliances shall be made of non-combustible or fire retardant material
- 
- UDAD** Which one of the listed requirements regarding life-saving appliances do not correspond to present regulations?
- A** All prescribed life-saving appliances shall be made of non-combustible or fire retardant material
- 
- UDFB** Which electronic component or system is this graphical symbol illustrating:
- A** Bandpass filter
- 
- UDHS** Your ship is equipped with a single, right-handed fixed screw. Steaming full ahead you reverse the engine to stop the ship. How will the ship react? No wind or current.
- A** She will most likely sheer to starboard and gradually lose headway
- 
- UDJL** Your vessel has been involved in a collision, and at first opportunity a lot of people from outside parties are asking questions. What shall you tell them?
- A** Do not reply to any questions from outside parties, except the Solicitor appointed by your company.
- 
- UDKE** Responsible for on-scene coordination during search and rescue operations is:
- A** On Scene Commander
- 
- UDLC** \*Which part of the fresh water quantity provided for each person the liferaft is permitted to accommodate may be replaced by a de-salting apparatus?
- A** 0,5 l if the de-salting apparatus is capable of producing this quantity in 2 days
- 
- UDMX** Which of the following fittings shall be provided to all lifeboats:
- A** handholds or a buoyant lifeline becketed around the outside, except in the vicinity of the rudder and propeller
- 
- UDOI** Which item among those below is included in the normal equipment of every liferaft ?
- A** two buoyant smoke signals



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UDQB

\*Which one of the following items has to be included in an abandon ship drill?

- A** operation of davits used for launching liferafts

UDSO

Fleetnet communication via the Inmarsat-system is an EGC among other things intended for all:

- A** vessels of a certain shipping-company

UDSU

In case of fire in the switch board, what kind of extinguisant to be preferred?

- A** CO<sub>2</sub>

UDWT

What is a saturated hydrocarbons?

- A** Saturated hydrocarbons are colourless and odourless liquids and they are chemically non-reactive

UDYO

How many lifejackets shall it be in a passenger cabin?

- A** Same number as beds in the cabin

UEAJ

What will You do if the purifier starts to vibrate, or has heavy vibrations?

- A** Stop the purifier immediately. Check the bowl for heavy side, deposits, bearings, housing, and the spindle for damage.

UEMR

Give the meaning of this symbol:

- A** lifebuoy with light and smoke

UERN

What is characteristic for alkanes?

- A** Alkanes has only single bond between the atoms

UETJ

What is the action that a GMDSS Radio Operator should take when a DSC distress alert is received?

- A** The Operator should immediately set continuous watch on the radiotelephone frequency that is associated with frequency band on which the distress alert was received.

UFAB

When fastening synthetic fibre ropes such as polypropylene on bitts, for safety and better rope control it is recommended to:

- A** Make two round turns fast on the leading bitt and then figure of eight on both bitts, fig. 4

UFBC

What number of fire hoses is required for cargo ships of 1000 tons gross and upwards? (SOLAS II-2/4.7.4.1)

- A** One hose for each 30 meter length of ship plus one spare. Hoses for engine and boiler room in addition





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- UFCO**                      What has to be done before the central gas extinguishing system is used on a fire in engine rooms, cargo holds or other confined spaces?
- A**    Make sure that the compartment has been evacuated
- 
- UFGR**                      Give the meaning of the following symbol:
- A**    lower liferaft to water
- 
- UFJI**                      Which entries shall the master make in the sea service book or record of service in connection with supervision of maritime service?
- A**    Entries regarding the seafarer's service time, vacation days due etc.
- 
- UFUC**                      What is the correct definition of: - a mooring line?
- A**    A thick rope to tie up the ship
- 
- UFVT**                      After starting a freon compressor, how long should you wait before opening the oil separator return valve?
- A**    After the separator shell has warmed up.
- 
- UGCS**                      Which of the part(s) below - besides part 0- from the main sections 1 and 3 of the publication "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc.", would you consider included in the term "Manning" ?
- A**    16 and 28
- 
- UGCS**                      Which of the part(s) below - besides part 0- from the main sections 1 and 3 of the publication " Excerpts from the Norwegian Ship Control Legislation", would you consider included in the term "Manning" ?
- A**    16 and 28
- 
- UGEC**                      Who shall request a maritime inquiry?
- A**    The master or owner if the master prevent or fail to do so.
- 
- UGEE**                      Where do you find provisions stating circumstances under which the master or chief engineer may be excepted from the provisions relating to hours of work on board ship?
- A**    In Act 3 June 1977 relating to hours of work on board ship, section 1
- 
- UGPX**                      How can a lead-acid type battery be checked to confirm if it is fully charged or not?
- A**    Measure the specific gravity of the electrolyte
- 
- UGQS**                      When should operational checks on navigation equipment be done?
- A**    Regularly, when preparing for sea and entering port
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- UGSI** In addition to personal equipment a firemans outfit also comprise breathing apparatus and a fireproof lifeline. How many complete sets of firemans outfit is to be carried by all ships? (SOLAS II-2/17.3)
- A** At least two sets
- 
- UGTA** Your ship is approaching the berth as illustrated and has a right handed propeller and no thrusters. What could be a method to retain full control of the vessel as it comes alongside?
- A** Let go starboard anchor 1 - 1,5 shackles
- 
- UGTA** Your ship is approaching the berth as illustrated and has a right handed propeller and no thrusters. What could be a method to retain full control of the vessel as it comes alongside?
- A** - Let go starboard anchor to about 1 shackle on deck
- 
- UGTD** MARPOL 73/78 - Annex V. Disposal of garbage. Your vessel is in the Red Sea (Special Area) and the Chief Cook is requesting to have some food waste burned in the incinerator. Due to problems with incinerator, you decide to have the waste ground in the Grinder (Lump size max. 25 mm) and disposed
- A** 12 miles
- 
- UGVT** You are approaching the shore in a lifeboat when you see a person holding a white flag. He is moving it in a horizontal motion from side to side. What does this indicate?
- A** Landing here is highly dangerous
- 
- UHDH** What are the duties of the watch-keeping engineer?
- A** To keep constant surveillance of machinery and auxiliary systems.
- 
- UHG** How should the painter of a liferaft which is fitted with a hydrostatic release be secured to the ship?
- A** Secured via a weak link to a secure part of the ship
- 
- UHJX** Some 4-stroke engines are fitted with a rotorcap on the cylinder head valves. For what reason?
- A** Improve the scaling surface function, increase the service time of the exhaust valve in the engine
- 
- UHKQ** Liquid level in tanks is often measured by measuring the hydrostatic head or differential pressure. One method is the air bubble type which is illustrated here. Calculate the level in the tank, utilizing the figures given on the drawing.
- A** 500 cm
- 
- UHKS** Which of the logic statements is correct for this pneumatic system?
- A**  $S = (A \text{ or } B) \text{ and } C$
- 
- UHLS** Which of the following functions are chemical treatments for cooling water system designed to do?
- A** Minimize corrosion, prevent deposits and scaling, and control of biologic. growth



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- UHPV** On the figure 4 possible definitions of the term "AFT BREAST LINE" are shown. Which one is the correct one?
- A** Aft breast line is defined as B on the figure
- 
- UHPX** There are two basic types of turbocharging systems: constant pressure and pulse. The main difference between the two is in which of the following?
- A** A constant pressure system has a larger volume exhaust gas receiver
- 
- UHPX** There are two basic types of turbocharging systems: constant pressure and pulse. The main difference between the two is in which of the following?
- A** The exhaust gas receiver.
- 
- UHPX** There are two basic types of turbocharging systems used for supplying combustion air to marine diesel engines: constant pressure and pulse. What is the main difference between these two types of system?
- A** A constant pressure system has a larger volume exhaust gas receiver
- 
- UHPX** There are two basic types of turbocharging systems used for supplying combustion air to marine diesel engines: constant pressure and pulse. What is the main difference between these two types of system?
- A** The exhaust gas receiver.
- 
- UHQ7** You are on a tanker constructed after 1985 and have a ODME installed. When discharging Annex I slop outside special areas, what statement is true ?
- A** Vessel should be underway, minimum 7 knots, discharge max 30 litres per nm and be 50 nm from shore. The discharge should take place above the waterline and total oil discharged should not be more than 1/30000 of total cargo.
- 
- UHR1** Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations ?
- A** be constructed of inherently buoyant material
- 
- UIGQ** Which one of the listed entries in the radio log for radiotelephone station do not correspond to present regulations? Entries in the radio log shall include:
- A** the condition and results of tests of the main radiotelegraph installation
- 
- UIHJ** How many types of membrane tanks systems do we have?
- A** There is two types of membrane tank systems, Membrane system and semi-membrane system
- 
- UIME** How will continuous low load operation influence the service interval of the cylinder covers on a 4-stroke engine?
- A** Reduce the service interval.
- 
- UIMG** UFL and LFL are commonly used expressions. What do they signify?
- A** Upper Flammable Level / Lower Flammable Level of explosive atmosphere?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UIOY

What is the most important factor influencing the HF range?

**A** the frequency used

UIRD

A draw card obtained from a cylinder of a large 2 stroke diesel engine shows that both cylinder compression and maximum pressures are low. Cards from other cylinders indicate normal operation. What is the likely cause of this problem?

**A** Fuel pump timing changed.

UISB

To inform ship of coast-stations messages, coast-stations give at fixed times:

**A** a traffic list with the call-sign of the ships involved in alphabetical numerical sequence

UISC

Which of the following could cause a blowback from a steam boiler oil fired furnace?

**A** Trying to ignite burner from hot brickwork

UISD

The word QUICK is spelled conform the international phonetic alphabet:

**A** Quebec, Uniform, India, Charlie, Kilo

UIVO

What is the first thing you would check when taking over a boiler watch

**A** The water level

UJBJ

What is the emergency frequency on H.F. (High Frequency) Radio / Telegraphy?

**A** 500 kHz

UJCJ

In a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

**A** The smallest diameter piston is the second stage piston.

UJCJ

In a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

**A** The smallest diameter piston is the stage two piston

UJDD

You are transiting a narrow channel. What can happen in this situation?

**A** The bow will be pushed away from the bank

UJDX

What would be considered to be the normal service life for rolling contact bearings fitted to a large turbocharger for a diesel engine?

**A** 8000 - 12000 hours.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- UJET** A drip tray containing oil is on fire. The only fire fighting equipment available is water hose with spray jet/spray nozzle. How, if at all, should you attempt to put out this fire using water?
- A** The water can be applied in a fine spray starting from the front in a sweeping motion.
- 
- UJGH** Which item among those below is included in the normal equipment of every liferaft ?
- A** one rustproof graduated drinking vessel
- 
- UJGM** Which of the following requirements regarding life-buoys correspond to present regulations? (SOLAS III/7.1)
- A** All life-buoys shall be placed in holders with quick-release arrangement
- 
- UJGM** Which of the following requirements regarding life-buoys do NOT correspond to present regulations? (SOLAS III/7.1)
- A** All life-buoys shall be placed in holders with quick-release arrangement
- 
- UJIW** VHF CH 70 ALL SHIP SAFETY 2275200 G3E NO INFORMATION FIRE CH13 EOS What is false regarding the above call ?
- A** A ship receiving this call must set watch on channel 16
- 
- UJMG** Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A:
- A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver- 2 or 3 VHF portable - 1 EPIRB
- 
- UJNW** When with a radio telex-connection with a coast-station ga+? appear on the screen:
- A** A command as dirtx...+ can be given
- 
- UKAP** What is the purpose of a sea-anchor?
- A** To keep the lifeboat steady against the sea/wind
- 
- UKEV** Which item among those below is included in the normal equipment of every rescue boat ?
- A** a buoyant bailer
- 
- UKQF** How do the extinguishing agents act?
- A** by cooling, smothering, combustible suppression, inhibition
- 
- UKRC** The circuit symbol is a driver for a solenoid (coil) of a solenoid valve S. What is the purpose of the diode IN 4002 connected in parallel to the solenoid S?
- A** Blocking inductive kick from the solenoid



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UKSI

What would describe a ship taking in water on the high seas?

- A** The message means the yacht has been overturned in heavy seas

UKWD

There exists an unqualified obligation to assist persons in distress, but does the Master have an obligation to assist in towing a vessel?

- A** The Master has no obligations to assist in towing a vessel

UKWD

There exists an unqualified obligation to assist persons in distress, but does the Master have an obligation to assist in towing of a vessel?

- A** The Master has no obligations to assist in towing a vessel

UKWE

What initial simple recommendation can we give to reduce oxygen in the boiler water?

- A** Raise the feed water temperature.

UKYM

Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these

- A** No welding or hot work on board ships carrying cargo with flashpoint below 60° C must take place in the tank area before the cargo has been discharged and gas freeing carried out.

ULBE

What is the maximum volume percent oxygen we can have on the inert gas for consume on a gas carrier?

- A** Maximum volume percent oxygen must not exceed 5 percent

ULCC

The reliquefaction plant for cargo cooling of liquefied gas cargoes can operate on either a direct or indirect cycle. On which liquefied gas cargoes must indirect cycle cargo cooling plant be used according to the IMO Gas Codes?

- A** Indirect cargo cooling plant is utilised on cargoes that can not be compressed or be expelled for high temperature

ULIO

The safety valve on a steam boiler shall:

- A** Open, when pressure in the boiler is in excess of normal working pressure.

ULLE

Which of the following are exclusively intership RT channels :

- A** channels 06, 08, 72, et 77

ULVF

Once a ship (equipped with self-stowing auto-tension winches) is moored alongside a loading or discharging berth, it is recommended that:

- A** All winches be left with the manual brake on and gear out

ULWC

Which word will precede a routine message ?

- A** No specific word will precede a routine message



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

ULXU	Which of the following fittings shall be provided to all lifeboats:
A	a boarding ladder that can be used at any entrance for persons in the water
UMHW	Give the meaning of the following symbol
A	Foam monitor gun
UMJJ	Which push-button valve A, B or C must be pushed (operated) in order to activate movement of the pneumatic cylinder S?
A	B
UMJJ	Which push-button valve A, B or C must be pushed (operated) in order to obtain movement of the pneumatic cylinder S?
A	B
UMKH	The pressure inlet to a pressure gauge is varied from zero to full scale and back to zero again. The output (indicating pressure) versus true pressure is shown in the diagram. The non - coincidence (mis - match) of loading and unloading curve is due to internal friction in the instrument. What do we call this
A	Hysteresis
UMKH	The pressure inlet to a pressure gauge is varied from zero to full scale and back to zero again. The output (indicating pressure) versus true pressure is shown in the diagram. The non - coincidence (mis - match) of loading and unloading curve is due to internal friction in the instrument. What do we call this
A	Hysteresis
UMKH	The pressure inlet to a pressure gauge is varied from zero to full scale and back to zero again. The output (indicating pressure) versus true pressure is shown in the diagram. The non - coincidence of loading and unloading curve is due to internal friction in the instrument. What do we call this phenomenon?
A	Hysteresis
UMMV	*On all ships any crew member must be given an on-board training in the use of the ships life-saving appliances as soon as possible after his joining
A	not later than 1 month
UMNT	These circuits are all active filters. Which of the circuits is a high-pass filter?
A	Figure 1
UMNT	These circuits are all active filters. Which of them is a high-pass filter?
A	Figure 1
UMOO	If the A.C. line current in a generator stator is doubled, the heating effect in the stator windings will:
A	Quadruple



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UMVC

Select the right send and receive frequencies for sending the routine ship/ shore MF-DSC message:

- A** TX: 2189.5 kHzRX: 2177.0 kHz

UMWW

\*Which of the following information shall be specified by the muster list ?

- A** which officers are assigned to ensure that life-saving and fire-fighting appliances are maintained in good condition

UNAG

Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. What is the Recovery Position?

- A** As shown in figure 1.

UNCQ

What do you understand by the term "Risk Assessment", and how would this be carried out on board?

- A** Identify the hazards, quantify the risks, put control measures in place, monitor the work

UNCQ

What do you understand by the term "Risk Assessment", and how would this be carried out on board?

- A** Identify the hazards, quantify the risks, put control measures in place, monitor the work activity and review

UNCR

How often must a lifeboat drill be carried out on a British ship?

- A** Monthly

UNHM

On board reflections in the ionosphere can be used determine i.a.:

- A** a frequency

UNIK

Replies from life-saving stations or maritime rescue units to distress signals made. What is the meaning of the signal?

- A** You are seen - assistance will be given as soon as possible

UNIL

What is the lowest allowed flashpoint for fuel oil used in the ships main engine? (SOLAS II-2/14.1.1)

- A** 60°C

UNJE

Fire protected lifeboats when waterborne should be capable of protecting its full complement when subjected to a continuous oil fire that envelops the boat for a period of not less than how many minutes?

- A** 8 minutes

UNKG

\*According to the SOLAS definition, what is an incombustible material?

- A** A material that neither burns nor emits flammable fumes in such a quantity as to experience ignition, when the temperature rises to 750 °C





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UNMM

An Oil Record Book, Part 1 shall be provided to every ship of 400 tons gross tonnage and above to record machinery space operations. Out of below mentioned operations, it is compulsory to record:

- A** Bunkering of bulk lubricating oil.

UNNK

On which channel a ship must maintain a continuous watch when sailing in area A1?

- A** 70

UNQS

To which document does the following clause relate? "The contract is subject to Norwegian laws and Norwegian courts, but cases concerning the employee service on the ship may be brought against the owner before a Norwegian court or before a court in the employees country of residence. The agreement

- A** To individual employment agreements for service on NIS ships

UNQS

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UNQS

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- A** To individual employment agreements for service on NIS ships

UNQV

Who is the leader of the lifeboat drill (abandon ship drill)?

- A** The appointed lifeboat commander.

UNUM

What would be the correct form of response to the question: What is the visibility in your position?

- A** The correct form of response would be: Visibility in my position is two hundred meters

UNWO

From the pressure gauges shown can you tell what is the oil pressure in a freon compressor?

- A** 2.0 bar

UOHS

What is the purpose of the carving note?

- A** To prove that the vessel has had the official number and net tonnage marked into a main beam, and that the ship's name has been marked on both bows and on the stern and the port of choice marked on the stern.

UOJH

Which is the "STARBOARD BOW", in the figure?

- A** Starboard bow is given by A on the figure

UOUV

\*What is the minimum average distribution capacity of a fixed water-spraying fire-extinguishing system fitted in an engine room ?

- A** 5 litres / m<sup>2</sup>/ min



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UPAV

\*Give the meaning of the following symbol

**A** Start air supply

UPCJ

What does the abbreviation VHF means ?

**A** Very High Frequency

UPEB

Which is the "CAPSTAN", in the figure?

**A** Capstan is given by A on the figure

UPGP

If a ship according to the rules of GMDSS is equipped with an MF/HF radio set a DSC listening watch must be kept on:

**A** 8414.5 kHz and on at least one of the following DSC frequencies: 4207.5 kHz, 6312.0 kHz, 12577.0 kHz or 16804.5 kHz

UPLP

Where do we find information about the ships fire preparedness?

**A** In the Fire and Safety instruction manual

UPOC

If some of the passengers are disabled, i.e. using wheelchair, cane, blind etc. What precaution should the crew take?

**A** All passengers that will require some form for assistance in case of evacuation, etc. must be registered, so there can be sent crew to assist them if needed.

UPVQ

The batteries must be placed in a well ventilated place, so that:

**A** the detonating gas can be discharged

UPXL

What should be the first action to be taken in the event of the water level disappearing out of the boiler water level gauge glass?

**A** secure all burners

UPYX

What would be the most probable cause of bluish exhaust gas?

**A** Too much lub oil in one or more cylinders.

UQAQ

On area A2 the function " Transmission and reception of signals for locating " is mainly based on:

**A** the use of SART transponders

UQEW

Which of the below word(s) is defined as follows: "Service on board a ship which gives the knowledge, insight and skills required for the issue of a certificate or other document referred to in these regulations"

**A** Seagoing service



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UQGM

The display of a radiotelephone-installation shows the following selections: Transmitting mode: H3E  
Transmitting frequency: 2187,5 kHz The transmitting mode indicator is "flashing". This can mean that:

- A** The transmitting mode is not compatible with the chosen frequency

UQLK

What is true if a chemical has a odor value (ov) of 10 ppm and a threshold value (tlv) of 5 ppm.

- A** You will get harmed by the fumes before you are able to smell it.

UQMH

Can a safety committee give a safety officer specific instructions

- A** They may require him to make a safety inspection and report his findings

UQNE

In the chemical industry the effect on a person of long term exposure to low concentration of a substance is of prime concern. The expression TLV (Threshold Limit Value) is used to express the concentration of a substance in parts per million that must not be exceeded if a person is exposed to a substance for a

- A** 8 hours a day?

UQNI

Which of the following effects is likely caused by oil contamination in the boiler water?

- A** It adheres to the boiler tubes and reduce the heat transfer. It combines with solids to produce sticky deposits.

UQUR

The most important preparation prior to Arrival to / Departure from ports is:

- A** Start an additional auxiliary engine

UQUT

Service as master on board a NIS-ship for non-Norwegian citizens has to be approved by:

- A** The Norwegian Maritime Directorate

UQXF

Silencing by a station, not in charge of the distress-traffic, is done as follows:

- A** SILENCING DISTRESS followed by the silencing station's call-sign

UQYV

What would be considered as vital areas for the ratings to keep under constant watch during SPM loading operations?

- A** Forecastle head, manifolds, maindeck?

URMH

What are the symptoms that would indicate the filter/drier unit in a refrigeration system was becoming blocked?

- A** A large temperature drop across the drier.

UROS

The turbocharger (constant pressure) is making "whoofing" noises. What might be the cause?

- A** Heavy seas from behind



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

URQL	Which one of the listed requirements regarding lifebuoys do not correspond to present regulations? (SOLAS III/31)
A	Every lifebuoy shall be constructed of inherently buoyant material or have sufficient air compartment for buoyancy
URQM	The lubricating oil on the exhaust side of the turbine blower gets very dirty after only a few hours in service. What can the reason be?
A	Exhaust gas leaking into the oil chamber
URSV	*What is the deadweight over which a tanker-vessel must be equipped with a fixed deck foam system and also with a fixed system of inert gas?
A	20.000 tons
URVO	The "squelch" adjustment on the front panel of a mariphone serves to:
A	adjust the noise threshold of the mariphone receiver
USQH	Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:
A	when floating in the inverted position it can be righted by one person
USQI	Automatic amplifier regulation is used for the following reasons:
A	with weak incoming signals distortion is reduced
UTOQ	What does normally form the basis for permission to a Non-Norwegian deck or marine engineer officer to serve in a position for which a certificate of competency is required on NIS ships?
A	A certificate issued by the authorities of a state which has acceded to the STCW-Convention
UTRU	If a master initially responds to a distress but then, in special circumstances, decides not to proceed, what must he then do?
A	- Inform the appropriate search and rescue authorities of his decision and enter the reason in the ship's logbook.
UUAG	The main engine is running steady. What is the normal shut down temperature for the main engine thrust bearing segment?
A	85° C
UUAM	What is the necessary precautions to prevent sootfire in the exhaust boiler?
A	All the mentioned alternatives.
UUBH	When considering instrumentation systems, what is meant by static amplifying?
A	Change in output signal divided by change in input signal



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- UUCY** The circuit consists of two inductors,  $L(1) = 6\text{ H}$  and  $L(2) = 12\text{ H}$ , in series. Calculate the equivalent  $L(S)$  of the inductors.
- A**  $L(S) = 18\text{ H}$
- 
- UUCY** The circuit consists of two inductors,  $L(1) = 6\text{ H}$  and  $L(2) = 12\text{ H}$ , in series. Calculate the equivalent total inductance.
- A**  $L(S) = 18\text{ H}$
- 
- UUHU** The word NAVTEX is spelled conform the international phonetic alphabet:
- A** November, Alfa, Victor, Tango, Echo, X-ray
- 
- UUOJ** What will happen if Phenol is overheated ?
- A** It will be discolored and turn pink.
- 
- UUXR** What can be measured by means of a manometer?
- A** Pressure
- 
- UUYM** After successful synchronising the kW and kVar loading are respectively transferred by the following controls:
- A** Speed governor and voltage regulator
- 
- UVAC** What is the flash point of a Class 3.1 substance?
- A** Lower than  $-18^{\circ}\text{C}$
- 
- UVBV** The input of an area code prefix in (radio)telex-traffic:
- A** differs for each country
- 
- UVBY** What are the workers duties in respect to personal protective equipment
- A** They must wear the protective equipment or clothing supplied when they are carrying out a task for which it is provided and follow appropriate instructs for use
- 
- UVCQ** \*On board a ship, how many lifebuoys can you expect to be fitted with a buoyant lifeline ?
- A** the two lifebuoys of the quick-release system and at least two other ones, one on each side of the ship
- 
- UVJL** What advantages do you see by conducting passenger muster's. Drill's are mandatory for international voyage's.
- A** The passengers get familiar with emergency procedures, life jackets, musterstation. And the crew get training in growd handling.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

UVMW

The internal e.m.f. generated in the phase windings of a lightly loaded a.c. generator is controlled by:

- A** The prime mover speed and excitation current.

UVWR

What is the requirement for bolting/securing of the blind flanges on the cargo manifold during cargo operation?

- A** All bolts to be in position and tightened?

UWDG

What does SBT mean?

- A** Segregated ballast tanker.

UWLS

Where shall shore side fire-fighting personnel find necessary information on the ships fire control in an emergency situation? (SOLAS II-2/20.2)

- A** Copy of the fire control plans/folders to be stored in a watertight prominently marked container outside the deck house

UWLX

The J3E mode is used:

- A** for ship-shore telephone-traffic on the MF/HF bands

UWQP

A drawn indicator diagram from one of the main engine cylinders is as shown. What kind of steps are necessary to rectify the failure?

- A** Overhaul the unit to determine faults such as: piston ring blow-by, exhaust valve malfunction, clogged scavenging ports, delayed ignition etc.

UWQU

Based on price, where would you avoid buying beef?

- A** Ulsan, Korea

UXCM

For what purpose might line displacement or line pressing be conducted prior to the discharge of cargo from an oil tanker?

- A** Push shore line content to shore tank or compare the ship's/shore flow measurements.

UXDK

Your vessel is at anchor. It is dense fog and visibility about 2 cables. On your radar screen you can see a vessel approaching the anchorage and the vessel is heading at your position. What will you do?

- A** Sound three blasts in succession, namely one short, one prolonged and one short blast

UXEF

If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the rhythm when performing M-T-M in combination with ECC with one First Aider only ?

- A** 15 compressions followed by 2 full ventilations.

UXOB

What does the abbreviation SOLAS mean?

- A** International Convention for the Safety of Lives at Sea



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**UXPU** You have water washed your cargo tanks using the fixed machines. What should you do before using portable machines to clean areas screened from the wash of the fixed machine by structural members?

**A** Ventilate the tank and perform procedure for tank entry according to company manual, then fit the portable machines.

**UXQJ** Give the meaning of this symbol:

**A** lifebuoy with light and smoke

**UXSI** The recognised definition of High Voltage equipment is anything that operates at over which of the following levels?

**A** 1000Volts ac or 1500Volts dc.

**UXTG** Is it at any time compulsory to hold a maritime inquiry?

**A** Yes, and as listed in the Maritime Act.

**UXUE** Which mandatory handbooks for medical treatment shall be carried on board?

**A** One control book for special medicines, one approved by Norwegian authorities medical book ("International Medical Guide for ships") and three pamphlets regarding first aid.

**UYAE** How would a ship drifting onto a rocky shore, be communicated?

**A** Flotsam

**UYCL** Treatment of burns and scalds depends on the severity of the injury. What is the correct thing to do for minor burns and scalds?

**A** Place the injured part under slowly running cold water for at least 10 minutes, but preferably until the pain is gone. If no water is available, use any cold, harmless liquid.

**UYGR** What is the maximum allowed suction head for fire pumps? (SOLAS II-2/4.3.3.2.5)

**A** 4.5 meters

**UYHP** When using an electric drier the linen should be removed when it is?

**A** Approximately 85% dry.

**UYNH** Which Act(s) govern(s) the conditions of hours of work on NIS-ships?

**A** Certain sections of the Act 3 June 1977 relating to hours of work on board ship and section 7 of the Act 12 June 1987 relating to NIS

**VABS** Which ships does the ISM code apply to

**A** All passenger ships, all cargo ships of 500GRT or above



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VAEE

Which statement is true?

- A** The purpose of the priming unit on centrifugal pumps is to evacuate the suction line if air is present

VAEJ

\*Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

- A** closing of watertight doors, fire doors, valves, scuppers, side scuttles, skylights and portholes

VAFF

An Inmarsat-C terminal is suitable for:

- A** store & forward messages

VAKD

Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. Why is this position so important?

- A** The position ensures that an open airway is maintained.

VATG

When the cable length exceeds approx. 10 meters we normally have to, in case of a Pt 100, in some way compensate for the cable resistance. Do we also have to do this if we choose to use a T802 temperature sensor?

- A** No

VATI

You are witnessing someone about to faint. What are the symptoms ?

- A** The person may be very pale, and pulse is slow at first and weak

VATI

You are witnessing someone about to faint. What are the symptoms ?

- A** The person may be very pale, and pulse is slow at first and weak.

VAVS

In the case when the temperature of the ambient air is equal to 10°C and the wind is blowing at a speed of 10m/sec the shipwrecked person must consider that the effect of air on his body is equivalent to that of an air whose temperature would be approximately:

- A** 0°C

VBHL

What action is required if the crankcase relief valve on an air compressor is operating and emitting an air and oil mixture?

- A** Overhaul the compressor unit.

VBNC

What does this crane signal indicate?

- A** Lower the boom, raise the load.

VBNE

If pollution takes place, what would you do immediately?

- A** Report to relevant authorities.





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VBOE

During a stay in port, a towing wire is to be put out forward and aft. What is important to take care of regarding this wire?

- A** That the wires are just above the water line at all times

VBOE

During a stay in port, a towing wire is to be put out, forward and aft. What is it important to take care of regarding this wire?

- A** That the wires are just above the water line at all times

VBRJ

Temperature sensors may be marked T 802. What does it mean?

- A** 802 ohm at 20° C

VBRJ

Temperature sensors may be marked T 802. What does this mean?

- A** 802 ohm at 20° C

VBSE

What are the Bosun and 2nd Mate going to do?

- A** They are going to weigh the anchor

VBUV

\*Which of the following preventive actions are required by the International Maritime Dangerous Guide Code?

- A** All these actions are required.

VCEY

Which cleaning agents for machinery space are important to use due to the oily water separators function?

- A** A non-emulsifying agent with self splitting emulsifiers.

VCIB

What is the meaning of this symbol ?

- A** Line-throwing appliance

VCJW

What is the meaning of this flag signal?

- A** L2330

VCLF

What does regulation 33 of chapter V of SOLAS require?

- A** - the master or a ship at sea which is in a position to be able to provide assistance on receiving information from any source that persons are in distress at sea, is bound to proceed with all speed to their assistance, if possible informing them or the search and rescue

VCNH

What to do if Your ship receive HFO with high density, from the last bunkering, to obtain the best purifying result?

- A** According to the nomograms You select a gravity disc with larger hole diameter.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VCSD

A lifebuoy is constructed to withstand a drop into the water from a height of:

**A** 30 m

VCTS

In which ships shall fire hoses be connected to hydrants in interior locations at all times? (SOLAS II-2/4.7.1)

**A** Passenger ships carrying more than 36 passengers

VCTT

How often shall it be conducted an abandon ship drill and fire drill onboard a passenger ship?

**A** Weekly

VCWK

For how long and at what speed is a fully loaded lifeboat designed to operate in calm weather?

**A** 6 knots for 24 hours

VDCJ

Give the meaning of the following symbol:

**A** muster station

VDDD

Where was the tug made fast?

**A** The tug was made fast at the centre lead astern

VDEU

Why does the Chief Mate have to reorder the cargo plan?

**A** The wheels of hatchcover No. 7 came off their tracks

VDFX

What should crew members not assigned to emergency teams, do?

**A** they should prepare survival crafts and in general render assistance where need

VDHL

Which item among those below is included in the normal equipment of every lifeboat ?

**A** a rustproof dipper with lanyard

VDNH

Which body should be issued with the Document of Compliance

**A** The company responsible for the operation of the ship

VDPN

Which wave length applies to a frequency of 20 MHz?

**A** 15 mtr



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VDQK

Which class of emission is used for HF radio telephony transmissions ?

A J3E

VDVM

Is there any conditions that influent on the efforts when organising the fire fighting?

A Where the fire breaks out, how many fire teams are available, the strength of the fire, the ships mobility, what is burning and communication

VEDU

You are the Sen.Off.Deck on vessel "A" and you have been involved in collision with vessel "B". Your cargo is fuel oil. The oil cargo is leaking out and the weather condition is good. What will you do to avoid the oil to reach and pollute the coast line?

A By putting the vessel mooring ropes as an oil boom around vessel and oil slick

VEES

A resistor has three red bands. If they all carry information about resistance value as opposed to tolerance, what is the indicated resistance?

A 2200 ohm

VEGG

What is the necessary equipment besides detergent when performing floor scouring on PVC - covered floors?

A A combined scouring and polishing machine.

VEIR

What section of the Crew Agreement would a young person be required to sign?

A ALC 1c

VEIW

Which item among those below is included in the normal equipment of every rescue boat ?

A a first-aid outfit

VEKN

\*Which of following items shall be included in an abandon ship drill?

A lowering of at least one lifeboat after any necessary preparation for launching

VEMB

When onboard channel 16 is used for a shore radio-connection, you always work:

A simplex

VEON

On RoRo passenger ferries, the passengers are not normally allowed to be on the car-deck during sailing. What is the reason for this rule?

A In case of an emergency situation, the car deck can be difficult to find the way around, and cars can shift position caused by ships movement.

VEVE

What type of pump of the below mentioned would be most suited for serving as a high pressure boiler water feed pump?

A Multistage centrifugal.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- VEYS** Your ship is making sternway of about 1.5 knots and your rudder is hard to starboard. Will this have any effect on the ships behaviour
- A** Yes, it will give the stern a lift force to starboard
- 
- VFAI** Sometimes, in order to improve suction to the pumps when discharging "light" or "gassing" cargoes, the tanks are pressurised by admission of inert gas under overpressure from the inert gas fans. In this respect one must remember that tanks are generally dimensioned to withstand a vapour pressure of:
- A** 2500 mm wg?
- 
- VFDY** The "sensitivity" button adjusts:
- A** RF-Gain
- 
- VFFK** What is most important for crew members when preparing for emergencies?
- A** That people are well trained
- 
- VFTT** A seawater pump requires overhaul but there are no spare wear rings for the casing and impeller. It is decided that new wear rings will be fabricated onboard using the ships lathe. What would be the most suitable material to use to fabricate the rings onboard?
- A** Aluminium brass.
- 
- VFUM** What is this kind of controller normally called?
- A** A cascade controller.
- 
- VFYT** On the figure 4 possible definitions of the term "STERN" are given. Which one is the correct one?
- A** Stern is given by C on the figure
- 
- VGAF** Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:
- A** be prevented from pressure exceeding twice the working pressure, either by relief valves or by limited gas supply
- 
- VGAH** Where would you normally expect to find the air vent cock on a steam boiler?
- A** highest point of the steam and water drum
- 
- VGBF** With the squelch mode on the VHF:
- A** another channel is chosen
- 
- VGCO** What is the meaning of this symbol ?
- A** Survival craft portable radio



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VGMS

What does this crane signal indicate?

**A** Lower the boom.

VGMU

What is the alcohol content in the blood permissible under US legislation before it is defined as intoxication?

**A** 0,04 %

VGON

According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Cargo Gear Book. How often should such examinations take place?

**A** - Annually.

VGON

According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Cargo Gear Book. How often should such examinations take place?

**A** Annually.

VGON

According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Record of Lifting Appliances. How often should such examinations take place?

**A** - Annually.

VGON

According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Record of Lifting Appliances. How often should such examinations take place?

**A** Annually.

VGON

According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Register of Ships Lifting Appliances and Cargo Handling Gear. How often should such examinations take place?

**A** - Annually.

VGON

According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Register of Ships Lifting Appliances and Cargo Handling Gear. How often should such examinations take place?

**A** Annually.

VGSS

What is the meaning of AAIC?

**A** Accounting Authority Identification Code

VGTP

Why is it important to keep the condense PH- value in correct range?

**A** To neutralize the acids occurring in the condensate system.

VGWV

The minimum number of lifebuoys required for a passenger ship cannot be less than:

**A** 8



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VGYN

What is an endorsment/ qualification document?

- A** A document, which together with the national certificate is entitling the holder to serve in a position for which a certificate of competency is required

VHHU

You are underway on a power driven vessel in open water when you see another power driven vessel approximately five miles straight ahead on an opposite course. What action do you take?

- A** Make a bold alteration to starboard and pass on his port side

VHHU

You are underway on a power driven vessel in open water, when you see another power driven vessel approximately five miles straight ahead on an opposite course. What action do you take?

- A** Make a bold alteration to starboard and pass on his port side

VHKD

Dry chemical powders extinguish fire by...

- A** Inhibition and smothering

VHLB

Most boiler design incorporate external "downcomers". For what purpose are those "downcomers" primarily incorporated?

- A** Ensure adequate circulation in all conditions of steaming.

VHNO

Which of the given options best completes the following statement? You should never attempt to light a boiler until.....

- A** use a proper torch

VHXP

You are involved in discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level in the Inert Gas supply to a tank being crude oil washed (IMO)?

- A** 5 %

VHXQ

Fire protection for tankers of 20.000 dwt and upwards consist of different fixed systems and arrangements. Which of the following systems and arrangements do not correspond to the present regulations?

- A** A fixed sprinkler system at the cargo manifold

VHYL

Foams may be classified according to their expansion rate in:

- A** low-expansion foam

VIBR

Where shall shoreside fire-fighting personnel find necessary information to control a fire on board a cargo ship in an emergency situation?

- A** In the fire control plans or booklet that must be stored in a watertight prominently marked container outside the deck house

VIDL

The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

- A** Boarding, launching and clearing of survival crafts (lifeboat/liferafts) and rescue boats



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- VIGB** A vessel towing with a total length of 1350 meters, expecting strong wind from starboard side. The towing wire is connected 20 meters from towing vessels stern rail. What is to be done?
- A** Secure the wire all way aft, to prevent wire moving out of center
- 
- VIGS** On the radio telephony 2182 kHz frequency when are the "silence periods"?
- A** For 3 minutes starting on the hour and half hour.
- 
- VIGU** A ship turns around a point known as the "pivot point". Where is the position of this invisible point when the ship is stopped and "dead" in the water?
- A** About same position as the center of gravity
- 
- VIHN** For which ships is the SOLAS convention applicable?
- A** For all vessels.
- 
- VIHV** During crude oil washing, the tank being washed is also to be stripped simultaneously. What is the requirement to the stripping capacity during crude oil washing?
- A** The stripping capacity has to be 25% more than supplied liquid.
- 
- VIMQ** When you join a new ship, how are you informed about safety rules, alarm instructions and your own duties in case of an emergency ?
- A** by muster lists exhibited in conspicuous places
- 
- VIRV** The steps of the embarkation ladder used must be proportioned as it follows:
- A** length = 480 mm, breadth = 115 mm, depth = 25 mm
- 
- VISK** What should the Fitter be asked to do?
- A** He is to check the heater for the hydraulic oil
- 
- VIWM** When would health surveillance be required
- A** When a particular work activity may cause ill health, when an identified disease or adverse health condition is related to the work recognised testing methods are available for early detection of an occupational disease
- 
- VJBP** Which items are important to get an optimal separation?
- A** Correct flow, pressure and temperature (viscosity).
- 
- VJDM** \*Each person the liferaft is permitted to accommodate for is provided with a quantity of water of:
- A** 1,5 l



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- VJHL How frequently must the accommodation be inspected, and how is this information recorded in the OLB?
- A 8
- 
- VJJH Give the meaning of the following symbol:
- A liferaft
- 
- VJLP Which one of the given requirements regarding survival craft muster and embarkation arrangements corresponds to the present SOLAS regulations?
- A Muster and embarkation stations shall be readily accessible from accommodation and work areas
- 
- VJLS Is it necessary to state the accounting code of the vessel in fully automated radio telex-traffic with a coast-station?
- A Yes
- 
- VJYC A particular vessel is equipped with the possibility to insert CO<sub>2</sub> in the scavenging air belt in case of uncontrolled fire. What are the action to be taken in case of fire in the scavenging air belt?
- A Reduce the RPM to reduce the scavenge air temperature. When the temperature is reduced and in case the fire is not extinguished by itself, insert carefully CO<sub>2</sub>
- 
- VKNG How many hand held distress flares are carried in each lifeboat?
- A 6
- 
- VKRK What is the responsibility of Channel Surveillance unit
- A To observe traffic movement in the English Channel, give advice on traffic move-ments and alert vessels which are making improper use of traffic separ. scheme
- 
- VKSG What is "AIR DRAUGHT", in the figure?
- A Air draught is given by C on the figure
- 
- VKUS What is the correct definition of: - a bollard?
- A A remedy to which the mooring lines are made fast
- 
- VKXI When re-inerting a cargo tank before commencing air venting, what is the maximum oxygen content in the supplied inert gas(IMO)?
- A 5% by volume.
- 
- VLBK \*Which one of the following items has to be included in an abandon ship drill?
- A a mock search and rescue of passengers trapped in their staterooms





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- VLER**                      \*Which of the following corresponds to the method of protection "I C" in the accommodation and service areas of a cargo ship?
- A**   Construction of all internal divisional bulkheading of "B" or "C" class divisions, without the installation of an automatic sprinkler extinguishing system
- 
- VLOB**                      What does the term OIL mean, as used in the Oil Pollution Regulations?
- A**   All of the mentioned
- 
- VLOY**                      How do you find out your duties from the alarm instruction?
- A**   By entering the alarm instruction with your cabin number
- 
- VLPT**                      In the chemical trade the acceptable means of cargo line segregation in case of two non-compatible products is:
- A**   By double blank flanges with a drain between them?
- 
- VLPX**                      A person wearing an anti-exposure suit shall be able to:
- A**   climb up and down a vertical ladder of at least 5m in length
- 
- VLTY**                      What is most important when preparing for emergencies?
- A**   That people are well trained.
- 
- VMGH**                      What is the correct definition of: -fair lead?
- A**   Where the mooring lines lead.
- 
- VMJP**                      Give the meaning of the following symbol
- A**   Sprinkler horn
- 
- VMKT**                      In installations of INTRINSICALLY SAFE equipment it is required that all cabling should be separated from non-intrinsically safe equipment, and to be of a special colour. What colour is that?
- A**   Blue
- 
- VMKT**                      In installations of INTRINSICALLY SAFE equipment it is required that all cabling should be separated from non-intrinsically safe equipment, and (where colour coding is relied upon) to be of a special colour. What colour is that?
- A**   Blue
- 
- VMKT**                      In installations of INTRINSICALLY SAFE equipment it is required that all equipment should be separated from non-intrinsically safe equipment, and to be of a special colour. What colour is that?
- A**   Blue



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VMLM

Which element must be removed to extinguish a fire?

- A** Either of the mentioned elements

VMRC

What certificates does the harmonised survey and certification cover?

- A** All SOLAS, MARPOL and Loadline convention Certificates

VMSD

You enter a high voltage switchroom and smell ozone. This is likely to indicate which of the following?

- A** Arcing at badly connected bus bars

VMSE

When a message is sent by the Inmarsat—C installation to an Internet e-mail address, the land charge is:

- A** independent of the destination

VMYA

What do we mean to gas free a cargo tank?

- A** To gas free a cargo tank means that we remove flammable-, neutral- or toxic atmosphere from the cargo tank

VMYX

Name the three most common energy forms.

- A** The three most common energy forms are mechanical energy, chemical energy and electrical energy

VNAJ

If we reduce the head to appr. 75 % of normal, what will the power consumption of the pump be?

- A** 60 %

VNDU

What would be the most probable cause of a drop in the lubricating oil pressure?

- A** A bearing is damaged.

VNEP

What does this crane signal indicate?

- A** Stop

VNFF

Why is it necessary to use the vacuum pump after a major overhaul of a refrigeration system?

- A** To evacuate air and water out of the system in order to prevent problem during operation.

VNFF

Why is it necessary to use the vacuum pump after a major overhaul of a refrigeration system?

- A** To remove any air and water from the system in order to prevent problems during



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VNFK

What could be the reason to knocking in the engine?

- A** The piston clearance is too large. Worn piston or cylinder liners.

VNIW

On area A3 the function " Transmission and reception of on scene communications" is mainly based on:

- A** the use of MF and/or VHF R/T

VNJR

Why do we have to make sure that the plate pack is compressed to the right measurement A, after insertion of plates?

- A** To prevent serious damages on the plates.

VNJT

What is the correct way in approaching the SPM, taking the prevailing wind, current and waves into consideration?

- A** As in example 2

VNMW

Give the meaning of the following symbol:

- A** immersion suit

VNNX

You wish to send a DSC-message because of a m.o.b. situation and assistance by other ships is required. You have to choose the category:

- A** distress

VNOO

What is the meaning of this symbol ?

- A** Immersion suit

VNRE

Passenger ship engaged in international voyages must conduct a muster for all passengers. What is the time limit for this exercise?

- A** 24 heures

VNWE

What items of clothing should be avoided during mooring operations?

- A** All of the mentioned equipment.

VOFH

Which of the following features is required for an anti-exposure suit ?

- A** is equipped with a pocket for a portable VHF

VOMW

The minimum number of lifebuoys required on passenger ships depends on:

- A** the length of the ship



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VORQ

\*Sanitary-, ballast-, bilge- or general service pumps may be accepted as fire pumps provided:

- A** They are not normally used for pumping oil

VPHR

\*Which one of the given requirements regarding manning and supervision of survival craft corresponds to the SOLAS regulation?

- A** A deck officer or certificated person shall be placed in charge of each survival craft to be used

VPHS

During restricted visibility you are posted, as lookout, on the bridge and you hear 1 prolonged blast at intervals of no more than 2 minutes on your port bow. What will you report to the OOW (officer on watch)?

- A** Power-driven vessel making way on port bow

VPLV

Which British ships must carry the Code of Safe Working Practices for Merchant Seamen

- A** Every UK ship except fishing vessels and pleasure vessels

VPMV

Your vessel has been in collision and it is uncertain whether the vessel has the required residual stability to remain afloat. After sounding the general alarm on board and informing the nearest Coast Radio Station of your situation, what other immediate steps should be taken?

- A** - Complete soundings of all compartments to determine the number compartments flooded. Check the vessels stability limitations within statutory loadline requirements to determine if still adequate.

VPMV

Your vessel has been in collision and it is uncertain whether the vessel has the required residual stability to remain afloat. After sounding the general alarm on board and informing the nearest Coast Radio Station of your situation, what other immediate steps should be taken?

- A** Search for missing persons. Continue to monitor situation and prepare for abandonment in case it become necessary.

VPRU

Which action do you perform when you log in to a satellite ocean region?

- A** You inform the NCS that the SES is available for communications.

VPSJ

You receive a distress alert on HF Radio. What should you do?

- A** Wait three minutes and if no acknowledgement is heard from a coast station you should relay the alert.

VPSL

In chemical tankers, to avoid having a deteriorating effect on cargoes and also to avoid cargoes attacking them, steam heating coil are generally made of:

- A** Stainless steel?

VPTN

What will you serve seafarers who have been exposed to heat?

- A** Cold drinks and salt.

VPUB

Responsible for the on-scene coordination during search and rescue operations is:

- A** On Scene Commander



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VPUH

\*Give the meaning of the following symbol

**A** Start water-spray

VPVW

Which one of the listed requirements regarding rigid liferafts do not correspond to present regulations?  
The liferaft shall have:

**A** all entrances fitted with rigid boarding ramps for boarding the liferaft at sea

VPWQ

Who are responsible for safe working conditions onboard?

**A** Master, Chief Engineer & Chief Officer.

VPWS

What is a hydrostatic release unit?

**A** unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metre

VPXS

Which animal and cut of meat would you use to make a real snitzel?

**A** A cut of veal topside.

VQGV

A pan on the galley stove containing oil catches fire, which of the following should NOT be used on this type of fire?

**A** Use water extinguisher to put out the fire.

VQHP

Having boarded the liferaft, how do you release the painter?

**A** Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

VQKC

The MMSI of a ship can be found in :

**A** The ITU List of Ship Stations

VQLA

A hand flare must have a burning period of at least

**A** 1min

VQLA

A hand flare must have a burning period of at least

**A** 1 Min

VQNJ

What action should be taken, in addition to isolating the leak, if the boiler water has become contaminated with a small amount of fuel oil due to a leaking heating coil?

**A** Dose with coagulent and blow down the boiler.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VQQB

The battery of an EPIRB:

- A** must be replaced before the expiry date is exceeded

VQRP

Your ship is equipped with a right-handed propeller. As you go full astern from full ahead the ship is sheering to starboard. Is there anything you can do to reduce the change in heading?

- A** Put the rudder hard to port to reduce the water flow to the right side of the propeller

VQRP

Your ship is equipped with a right-handed propeller. As you go full astern from full ahead, the ship is sheering to starboard. Is there anything you can do to reduce the change in heading?

- A** Put the rudder hard to port to reduce the water flow to the right side of the propeller

VQ TJ

Which of the following is a SART transponder frequency :

- A** 9 GHz

VQVT

Which word will precede a distress message ?

- A** MAYDAY

VRFB

The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

- A** Seeing that the passengers are suitable clad.

VRFY

What to do if Your ship receive HFO with high density , from the last bunkering, to obtain the best purifying result?

- A** According to the nomograms You select a gravity disc with larger hole diameter.

VRGS

A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?

- A** Aft of the forecandle secured with the use of a hydrostatic release device

VRGW

Under what circumstances should gangway nets be rigged under the gangway?

- A** Whenever the gangway is rigged.

VRJS

What types of fire extinguishers shall be used in the engine room?

- A** Fire extinguishers equipped for powder or CO2 only.

VRKW

We have a problem with vibration in the turbocharger. What might be the cause?

- A** The turbine rotor is not balanced



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VRKX

If a nylon mooring rope is immersed in water it undergoes:

- A** A decrease in strength of 20 %

VR0D

Which class of emission is used for HF radio telephony transmissions ?

- A** J3E

VSGQ

What could cause diesel engine lubricating oil to appear cloudy with a slightly "milky" colour?

- A** Water contamination.

VSGR

What is the correct name of the part highlighted in the sketch?

- A** Exhaust valve

VSJW

After you have washed the arrival ballast tanks, what is extremely important to do properly before arrival ballast is pumped into the arrival ballast tanks?

- A** To wash all lines and pumps properly.

VSMF

The presence of smoke represents one of the greatest dangers in the fire fighting. Why?

- A** It reduces the visibility, provokes panic, is irritating and may be toxic

VSMN

When a coastguard-station wants to send a gale-warning by DSC it will happen in the category:

- A** safety

VSQN

Inmarsat is short for:

- A** International Maritime Satellite Organisation

VSWN

Which of the following channels and modes should be used when initiating a distress alert transmission?

- A** Channel 70 DSC.

VTAM

When arriving a port the manifold connections should always be ?

- A** All fully bolted except those actually in use.

VTAU

What kind of electrolyte is used for Nickel-iron batteries?

- A** Solution of potassium hydroxide (KOH) and water



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VTBP

Can the OOW be the sole lookout?

- A** Only during day time when visibility, traffic etc make it safe

VTCO

Quality of the feed water in a steam plant changes during operation. Caused by this, the water is regularly tested. Which of the below statements describes the chemical mechanisms normally occurring?

- A** Generation of carbonic acid causes the water quality to drift towards sour and lower the pH - number.

VTIY

Give the meaning of the following symbol:

- A** immersion suit

VTLR

\*The engine room is equipped with regular fire hoses and nozzles. What is important to observe when using water as an extinguishing agent in the engine room?

- A** All the mentioned alternatives

VTML

Which of the following detailed explanations should be mentioned in the Training Manual ?

- A** The use of all survival equipment

VTOD

When disconnecting the cargo hose after discharging, some oil is drained into the drip-tray under the manifold. What is the correct way to dispose of this oil, which is mixed with some water?

- A** Transfer it to the sloptank, and later discharge it to a reception facility

VTOD

When disconnecting the cargo hose after discharging, some oil is drained into the drip-tray under the manifold which already contains a small amount of dirty water. What is the correct way to dispose of this oil?

- A** Transfer it to the sloptank, and later discharge it to a reception facility

VUCY

The frequency 156,8 MHz is used for :

- A** VHF channel 16

VUET

Which of the following precautions should be taken when work is to be carried out on the radar scanner unit on the mast?

- A** fixed sign on the mast plus signs on each radar when work is in progress in mast

VUFP

According to SOLAS fire drills to be carried out at intervals of no more than?

- A** One month

VUUN

What type of component does this graphical symbol illustrate?

- A** Pressure-reducing regulator





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VUUN	What type of component does this graphical symbol illustrate?
A	Pressure-reducing regulator.
VUUP	This is an electronic temperature controller. You have been asked to adjust the controllers integrating action. Which button on the front of the controller shall be utilized for this adjustment?
A	Pos. 8
VVBI	Which Security Levels requires the highest security alert?
A	Security Level 3
VVCC	*Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations ?
A	not less than half the total number of lifebuoys shall be provided with self-ignition lights.
VVDU	What is the special requirement listed in IBC/BCH when loading White Spirit ?
A	the tanks should be fitted with audible and visible high and high-high level alarms
VVDU	What is the special requirement listed in IBC/BCH when loading White Spirit?
A	the tanks should be fitted with audible and visible high and high-high level alarms
VVKQ	When reasonable and practicable, how often shall rescue boats be launched with their assigned crew aboard and manouvered in the water?
A	Every month
VVMY	Vibration analysis is often used as a conditioning monitoring tool onboard ship as part of the approved planned maintenance system. Many vibration measuring instruments are fitted with a harmonic filter/analyser. How would these filters normally be used during vibration measurement on a centrifugal
A	To isolate a single frequency of vibration associated with one of the pumps components.
VVOQ	How does low expansion foam act as an extinguishing agent when dealing with oil fires?
A	By smothering and also providing some cooling
VVPP	You are underway on a power driven vessel in open water when you observe a crossing power driven vessel approximately 8 miles away at 22 degrees on your port bow. Bearing steady, what action do you take?
A	Maintain course and speed with caution as he is the give way vessel
VVQI	What is the purpose with a expansion coupling?
A	Make the pipes capable to move back and forth inside the coupling.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

VVRA

What can a quick change of liquid flow in a pipe line lead to?

- A** Pressure surge and liquid pressure.

VWJK

Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these

- A** The atmosphere in the tank where hot work is to be carried out, and adjacent tanks shall be checked immediately prior to commencement of hot work.

VWQC

Which ships require a Certificate of Fitness

- A** Gas carriers and chemical carriers

VWWX

By high power of a VHF is meant a maximum of:

- A** 25 watt

VXCB

What is the main advantage of a Positive Pressure Breathing apparatus?

- A** If the face mask has a leak toxic fumes/smoke would still not enter the mask.

VXFE

What is the Chief Mate worried about?

- A** He is worried that oil will run through the outlets and into the sea

VXJJ

Which controller must be tuned first in a cascade control system

- A** The secondary controller

VXJJ

Which controller must be tuned first in a cascade control system?

- A** The secondary controller

VXPE

Has ILO convention 73 been implemented by Norway?

- A** Yes, in regulations on medical examination of employees on ships.

VXQD

\*What is the procedure for testing a fire detection system?

- A** All the mentioned alternatives

VXXW

What are freeboard sheets?

- A** A dedicated set of pages in the Official Log Book for entering details of draughts, freeboards and allowances when departing from any port or place



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- VYBS** The ship is involved in a collision, what is the immediate action by the Officer of the Watch after the incident has taken place?
- A** Sound the General Alarm - carry out emergency actions.
- 
- VYEN** Which item among those below is included in the normal equipment of every lifeboat ?
- A** four rocket parachute flares
- 
- VYFW** Hindus are not allowed to eat one particular type of meat. Which one?
- A** Beef
- 
- VYGV** How often are abandon ship drill and fire drill required to be held on passenger ships, according to SOLAS?
- A** Weekly
- 
- VYJD** If a shipping company wants to be attractive to clients, it must be able to provide?
- A** An efficient and reliable service
- 
- VYLW** The prescribed test of EPIRB, SART and portable VHF radio set must be entered in:
- A** ship's radio log
- 
- VYXN** A method NOT usually allowed in cleaning up oil spills in the US waters is:
- A** Dispersant
- 
- WACC** Some liquefied gas carriers are fitted with independent, combustion type, inert gas generators. In addition to maintaining an inert atmosphere in hold and interbarrier spaces, what is the other main purpose of having this type of inert gas plant onboard a liquefied gas carrier?
- A** Inert gas is utilised on board gas carriers to neutralise atmosphere in cargo tanks, pipes and hold/ interbarrier spaces
- 
- WADB** The charge to the cost for a message sent by the Inmarsat-C installation must be calculated. The size of the message is 2,56kbits. The charges message sent is 0,17 SDR per unit. The total charge for the message is:
- A** 11 times 0,17 SDR
- 
- WADV** Reports shall be made if
- A** All answers
- 
- WAIW** Very roughly, the gas mixture from Crude Oil can be represented by the hydrocarbon gas Propane for analysis and comparison purposes. What is the approximate upper flammable limit(UFL) of crude oil vapours by volume in air?
- A** 10 to 11%



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- WAIW** Very roughly, the gas mixture from Crude Oil can be represented by the hydrocarbon gas Propane. What is the approximate upper flammable limit(UFL) of crude oil vapours by volume in air?
- A** 10 to 11%
- 
- WAIW** Very roughly, the gas mixture from Crude Oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Upper Flammable Limit of Crude Oil vapours as a percentage by volume in air?
- A** 10 to 11%
- 
- WAIW** Very roughly, the gas mixture from Crude Oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Upper Flammable Limit of Crude Oil when measured as a percentage volume in air?
- A** 10 to 11%
- 
- WAIY** During the ship to ship cargo transfer operation if any considerable amount of oil is spilt and trapped between both ships, where risk of ignition due to incensive sparks caused by metal to metal contact, such as fender support steel nets/chains and shipside do exist, you should:
- A** Cover the spillage with a layer of foam.
- 
- WAPG** Which of the following ear protection devices is most effective?
- A** Ear muffs
- 
- WARV** \*Which of the following instructions will generally be given by a port authority to allow welding or hot work in a cargo tank of a tanker ?
- A** Before the tank is entered, lifeline, rescue harness and compressed air apparatus shall be ready at the relevant hatch
- 
- WAUD** What is the definition of sludge control?
- A** The cargo tanks are to be washed that often so residues do not accumulate in large quantities.
- 
- WAUH** What will you bring in a lifeboat if the ship is abandoned?
- A** Warm clothes, blankets and lifevests.
- 
- WAVF** You are on a tug and are towing an unmanned barge. You are restricted in your ability to manoeuvre. The total length of the tow is 219 metres. What daylight signals are required by the International Regulations for Preventing Collisions at Sea?
- A** Diamond shape
- 
- WAVJ** The circuit consists of two capacitors,  $C(1) = 6 \mu F$  and  $C(2) = 12 \mu F$ , in parallel. Calculate the equivalent  $C(S)$  of the two capacitors.
- A**  $C(S) = 18 \mu F$
- 
- WAYO** A telex connection via Inmarsat-A can be disconnected on board by entering:
- A** .....



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WBBD

Which item among those below is included in the normal equipment of every lifeboat ?

- A two buoyant smoke signals

WBCA

How should the hook be released from a davit lowered liferaft?

- A Just prior to reaching the water, the lanyard should be pulled. This sets the hook which will automatically release once the raft is waterborne

WBFJ

What is a "Solidifying substance" ?

- A A noxious liquid with melting points less than 15°C, is at a temperature, at the time of unloading, of less than 5°C above its melting point, or in the case of substances with melting points equal to or greater than 15°C, is at a temperature, at the time of unloading, of less than 10°C above its melting point.

WBLW

Give the meaning of the following symbol

- A Survival craft portable radio

WBOG

What are the immediate duties of the bridge Officer of the Watch when the ship suddenly runs into a fog bank?

- A Commence sounding the fog signal, engines on standby, call for lookout, call Master

WBST

The license is a:

- A permission for availability, installation and use of radio transmitters on board

WBXU

On board, in case of an m.o.b. a DSC-call is to be made. In the category-menu is chosen:

- A distress

WCFC

Which of the listed sensors is suitable for physical displacement?

- A Strain gauge

WCFW

It is possible to operate two similar generators in parallel at equal power (kW) but at different power factors. The generator with lower power factor will cause it to run:

- A Hotter due to increased current

WCFW

It is possible to operate two similar generators in parallel at equal power (kW) but at different power factors. The generator with lower power factor will run:

- A Hotter due to increased current

WCIK

Why did the new Cadet want to go to the messroom?

- A He needed to get acquainted with the officers.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WCIK

Why did the new Cadet want to go to the messroom?

- A The new Cadet wanted to go to the messroom to become acquainted with the officers

WCKY

Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be provided on deck or at the muster stations?

- A 5% extra

WCRQ

What advantages does the radar have over the eye?

- A Simplifies the overview

WDBR

Apart from red, what other colour is frequently used for a dry powder extinguisher?

- A Blue

WDCV

The aerial system of an Inmarsat-C terminal consist of:

- A an omni-directional aerial

WDED

One of the following is NOT an alarm on an inert gas plant, which one?

- A Low oxygen alarm

WDEY

What is the minimum number of "International shore connections" that should be provided on vessels of 500 GRT and above?

- A 1

WDFD

What is the meaning of this symbol ?

- A Lifebuoy with light and smoke

WDLY

Which of the following fire-fighting equipment is the most efficient and has the least side effects in case of a large fire in an engine room?

- A Central gas extinguishing system and/or waterfog

WDRO

On a traditional crude oil carrier, it is possible to arrange the valves in the bottom of a pumproom so that cargo flows from one bottom line to another. When more than one grade of cargo is carried, what is the operational safeguard requirement regarding these valves?

- A Two valves segregation.

WDRO

On a traditional crude oil carrier, it is possible to arrange the valves in the bottom of a pumproom so that cargo flows from one bottom line to another. When more than one grade of cargo is carried, what is the requirement regarding these valves?

- A Two valves segregation.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**WEGK** The transmitting receiving method, when both stations can transmit and receive at the same time is called:

**A** duplex

**WEGM** Acoustic feedback can arise:

**A** because the volume adjustment of the speaker is too high

**WELN** Which main unit determines the increasing/decreasing of the fuel quantity, i.e. controls "the effective delivery stroke" (Bosch type pump)?

**A** The governor

**WEOA** The electric motor on one of your centrifugal pumps has for a period of time gradually been running at lower and lower Amp-load. The pump is still supplying water, but the pressure is reduced. Which of the below alternatives is probably the reason?

**A** Inner diameter of impeller is bigger due to cavitations, or outer diameter reduced by erosion.

**WESJ** In the international code of signals what does this flag mean?

**A** I am manoeuvring with difficulty - Keep clear of me

**WEXL** What phenomenon is used for liquid cleaning by centrifugal separators

**A** Centrifugal force

**WFAM** With regard to radar, what would be a correct form of response to the question: What range scale are you using?

**A** The correct form of response would be: "I am using the 12 mile range scale"

**WFAW** \*Which of the following fittings shall be provided to all lifeboats:

**A** watertight lockers or compartments

**WFTX** Where would you store a six-month supply of margarine?

**A** In the meat locker

**WFTY** Overshoot

**A** Do a 20/20 degrees zig-zag manoeuvre

**WFUR** Are all independent tanks self-supported?

**A** All independent tanks are self-supported



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WFYY

Which of the following may cause a fire in the accommodation spaces?

**A** All the mentioned alternatives

WGJB

Duct keels or pipe tunnels are a common feature on OBO and O/O carriers. Because they abut cargo compartments and carry cargo & ballast piping, danger of leakage of gas or liquid into them is present. If you have just discharged a cargo of crude oil and were to enter a pipe tunnel for inspection/work you

**A** Check for presence of hydrocarbon gas using a CGI and oxygen using an oxygen analyzer and if you obtained readings of 0% LEL and 21% oxygen respectively, you would enter?

WGKM

According to the IAMSAR Manual, what is the expected survival time for a person in water of 4-10 degrees Celsius, without special protective clothing?

**A** - Less than 3 hours.

WGLO

\*Give the meaning of the following symbol

**A** Secure hatches

WGNA

A man is reported to have fallen overboard and the Officer of the Watch releases the lifebuoy and starts a man overboard manoeuvre, who are the first persons onboard he should inform?

**A** Engine Room

WGOY

Why is the maximum pressure in a Plate Heat Exchanger usually limited to about 10 bar?

**A** Difficult to seal plates above this pressure.

WGRF

How often shall it be conducted an abandon ship drill and fire drill onboard a passenger ship?

**A** Weekly

WGRL

If the temperature increase, what will happen with the interface in the bowl?

**A** Interface towards center.

WGUM

What is the meaning of this symbol:

**A** evacuation slide

WGVs

What is the period of validity of Safety Construction Certificate

**A** 5 years

WHIT

What is the greatest interest of the "help" position ?

**A** it lessens the survivor's heat escape





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- WHLC** In U.S. waters the OPA rules have to be taken in considerations, but what types of ships do these rules affect?
- A** All ships.
- 
- WHNY** One can check the functioning of the SART by:
- A** activating the SART and checking the effect on the radarscreen
- 
- WHPM** Which one among the following information shall be marked on the container of an inflatable liferaft:
- A** SOLAS A PACK or SOLAS B PACK according to the type of emergency pack enclosed
- 
- WHRB** One of the main purposes of refractories in the boiler furnace is to
- A** prevent excessive furnace heat losses
- 
- WHRL** The accuracy of the position of a Cospas-Sarsat EPIRB established / determined by a LUT is:
- A** 5 miles
- 
- WHWE** Who is the leader of the lifeboat drill (abandon ship drill)?
- A** The appointed lifeboat commander.
- 
- WIAM** When splicing an eye on a mooring wire (using the recommended 5 full tucks and 2 half tucks) the effective breaking strength of the wire may be affected by the splice. What would be the anticipated change in the breaking strength of the wire?
- A** A reduction in strength of 10 % to 15 %
- 
- WIAN** What happens if the visual and audible fire signal at the control panel does not receive attention?
- A** A signal will sound in the crew accommodation spaces after 2 minutes
- 
- WIBF** If an oil tanker is built with a "free flow system", what does this mean?
- A** A vessel without ordinary bottom lines where the cargo flows from tank to tank through bulkhead valves.
- 
- WIEO** In which frequency band does a search and rescue transponder operate?
- A** 9 GHz.
- 
- WIFG** Which one of the listed requirements regarding the stability of inflatable liferafts do not correspond to present regulations? The stability of inflatable liferafts shall be such that:
- A** in the event of capsizing it will automatically attain a position providing an above water escape



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WIFK	What is false regarding the function :” Transmission and reception of maritime safety information”
A	On area A1 this function is based on the use of VHF NBDP telex
WIJM	Which chapter of the General Civil Penal Code states that it is a serious punishable act taking an unseaworthy ship to sea?
A	Chapter 30
WIJO	A faulty steam trap on a fuel oil heater can cause
A	reduced heat capacity of the heater
WIKE	Define the class of emission G3E :
A	Radiotelephony - Phase modulation
WIKN	Give the meaning of the following symbol:
A	location of embarkation ladder
WIME	The SART-transmitted signal will be most conspicuous on the radar-screen when the receiver:
A	is not fine-tuned
WIOO	What are the duties of a master if he has to leave a sick or injured seafarer behind in a foreign port?
A	Notify nearest Norwegian Consulate
WIQA	If the temperature decrease, what will happen with the interface in the bowl?
A	Broken water seal, oil outside the top disc.
WIUM	At which of the pressures shown should the low oil pressure trip operate on a freon compressor?
A	+ 1.0 bar
WIYL	Which electronic component or system of components is this graphical symbol illustrating:
A	Operational amplifier
WIYR	Cooling water expansion tank in a closed cooling water system is designed to maintain a constant head on the system and:
A	Allow for increase in water volume



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- WJBE** When a ship is steaming along a course line, what is the importance of determining the set and rate of drift due to wind and current?
- A** To determine if there is any danger of grounding or colliding with objects during drifting
- 
- WJCW** When commence discharging with a centrifugal pump, which valve is the last to be opened?
- A** The pump's delivery valve (discharging valve).
- 
- WJFH** The distress signal may only be transmitted when ordered by:
- A** the captain/ master
- 
- WJIU** Breathing apparatuses is an important piece of equipment for being able to fight a fire onboard a vessel. What routine precautions to be observed with regard to use and maintenance of such equipment?
- A** All the mentioned alternatives.
- 
- WJMV** In a centrifugal pump, low pressure regions may occur in the flow at points where high local velocities exist. If vapourisation occurs due to these low pressure areas then bubbles occur. Such formation and collapse of bubbles is very rapid, and can generate very high pressure hammer blows which results in
- A** Cavitation.
- 
- WJOP** What is the main difference between a stuffing box gland and a mechanical seal on a centrifugal pump?
- A** If packing fails the pump can be kept running by tightening the glands, but if a mechanical seal fails it must be renewed to stop the leakage
- 
- WJPF** If water contamination occurs in the crankcase oil of an auxiliary engine the oil viscosity will:
- A** Increase.
- 
- WJTA** A diesel engine cylinder head is to be overhauled but the spring compressor for removing the valve collets is found to be damaged and unusable. How should the task be carried out by ships engineers?
- A** Delay the work until a new spring compressor is available or fabricate a suitable
- 
- WJUF** The condenser in an evaporator is cooled by:
- A** Seawater
- 
- WJUF** The condenser in an evaporator is cooled by:
- A** With seawater
- 
- WJYK** Can RNC charts be used for voyage planning?
- A** Only in conjunction with paper charts



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WKCR

GMDSS regulations require that vessels carry two-way VHF for survival craft. How many are required, and when do the regulations apply?

- A** 3 sets. New-builds from February 1992, other vessels from February 1995

WKJJ

What type of heat exchanger is shown?

- A** Plate

WKKA

What to do if Your ship receive HFO with high density , from the last bunkering, to obtain the best purifying result?

- A** According to the nomograms you select a gravity disc with larger hole diameter

WKSS

Indicate the correct name for the tool on the sketch:

- A** Adjustable wrench

WLEH

With respect to the ISM, what training in additional to lifeboat and fire drills must be carried out?

- A** Familiarization, and other drills identified as necessary by the ship

WLIK

A separate garbage logbook has to be kept onboard, which item(s) is not required to be filled in?

- A** Person in charge

WLQU

Which of the following fish has the highest fat content?

- A** Plaice

WLVA

To whom working on Norwegian ships does the Seamens Act in principle apply?

- A** To everyone engaged in work on board, except those who only work on board while the ship is in port

WLVX

What kind of information must be posted in all passenger cabins?

- A** The route to musterstation, how to put on lifejacket and different emergency signals used onboard the ship.

WLXS

Large slow speed diesel engines are usually of the crosshead type and have various arrangements to deliver lubricating oil directly to the crosshead bearings and guides to ensure adequate lubrication. Why are the crosshead bearings considered differently to the other bearing in this type of engine in respect of

- A** The running surfaces oscillate relative to each other during operation rather than rotate and therefore full film hydrodynamic lubrication is not possible

WMED

Due to the relative low resistance of a Pt 100 sensor it may be necessary to compensate for the cable-resistance to ensure a correct reading. Which of the 4 alternatives given is correct for the connection of this compensation resistance?

- A** Figure 3.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- WMED** Due to the relative low resistance of a Pt 100 sensor we might have to compensate for the cable-resistance to ensure a correct reading. Which of the 4 alternatives given is correct for the connection of this compensation resistance?
- A** Figure 3.
- 
- WMED** Due to the relative low resistance of a Pt 100 sensor we might have to compensate for the cable-resistance to ensure a correct reading. Which of the 4 alternatives given is correct for the connection of this compensation resistance.
- A** Figure 3.
- 
- WMEF** What do you understand by the term Maximum Continuous Rating, MCR, of a diesel engine?
- A** The maximum possible percentage of oil being burned effectively in the cylinder volume available.
- 
- WMIK** This circuit is a logic gate with two input signals, A and B, and one output signal Q. Which type of logic function does the gate perform?
- A** NOR gate
- 
- WMIK** This circuit is a logic gate with two input signals, A and B, and one output signal Q. Which type of logic function is the gate giving?
- A** NOR gate
- 
- WMMO** \*Which one among the following information shall be marked on the container of an inflatable liferaft:
- A** date when last serviced
- 
- WMOG** The sound-level of the speaker on e.g. an MF/HF radiotelephony installation is adjusted with:
- A** AF-Gain
- 
- WNDB** Read this text and answer the question: When should training in personal survival techniques be given?
- A** Before being employed
- 
- WNGV** This circuit consists of two resistances,  $R(1) = 12 \text{ ohm}$  and  $R(2) = 6 \text{ ohm}$ , connected in parallel. Calculate the equivalent value  $R(S)$  of the two resistances.
- A**  $R(S) = 4 \text{ ohm}$
- 
- WNJV** On area A1 the function "Transmission of ship to shore distress alerts" is mainly based on:
- A** the use of VHF DSC
- 
- WNLO** Who are required to keep time sheets (record of working hours) on NIS ships?
- A** The crew members embraced by the Act 3 June 1977 relating to hours of work on board ship



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- WNLU** Conform SART requirements the signal must be visible on the ship's radar from a distance of:
- A** 5 miles
- 
- WNLW** The nationality of a ship can be determined by means of:
- A** call sign
- 
- WOCH** What is the purpose of "fire wires" on an oil tanker and when would they be positioned?
- A** Wire for pulling burning ships off the pier
- 
- WOCH** What is the purpose of "fire wires" on an oil tanker and when would they be put out?
- A** Wire for pulling burning ships off the pier
- 
- WOIF** What would you do before giving a boiler a "bottom blow"
- A** raise the water level a couple of inches above normal
- 
- WOTT** What is the meaning of this single letter signal?
- A** I am dragging my anchor
- 
- WOWG** What document is required before a mariphone is placed on board?
- A** A license, given by or on behalf of the Minister of Traffic department
- 
- WOXB** Who is responsible that regulatory working hours are not exceeded?
- A** The master and department heads.
- 
- WOXE** What is the purpose of the Oil Mist Detector?
- A** To detect oil mist (explosive atmosphere in the crankcase).
- 
- WOXY** What does this crane signal indicate?
- A** Raise the boom, hold the load.
- 
- WOYY** \*Give the meaning of the following symbol
- A** Start engine



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WPER

Can the Master of a ship also be the Safety Officer

A No, there could be a conflict of interest

WPIT

Can you stow Butyl Alcohol adjacent to Caustic Soda ?

A Yes

WPOW

$P = U \times I \times \sqrt{3} \times \cos(\phi)$  What is the formula for I ?

A Formula 1

WPOY

How many hand held distress flares are carried in each lifeboat?

A 6

WPQH

Occasions may occur that survey has to be undertaken via rafting. What is recognized as minimum height between lowest flat-faced web and water level?

A 1.0m?

WPSE

Consider the situation sketched below. What can happen if the tugmaster is not careful?

A The tug may be turned across your bow with the danger of being turned over

WPUO

What is the status of the rules of the SOLAS convention?

A Mandatory.

WPWE

Why is it important that the correct tension is maintained in a diesel engine timing chain?

A To avoid high wear down of chain and chain wheel tooth and a potential breakdown.

WQEP

What are we using the ASTM table 53A/B for?

A With given density at observed temperature we find a corresponding density at 15 degrees Centigrade.

WQFO

What is the general emergency alarm signal to be sounded by the ships whistle and alarm bells in case of an emergency situation?

A Seven short blasts followed by one prolonged blast

WQKG

Where is the best position of the oil/water interface in this figures?

A Position A



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WQRV

What is false regarding the function :” Reception of shore to ship distress alerts ”

- A** On all areas this function is based on the use of SARSAT COSPAS Epirb

WQXT

A radio-telex call to a coast-station is generally started up in the:

- A** ARQ-system

WQYO

The exhaust gas temperature is too high in all cylinders because of:

- A** Charge air temperature is too high.

WRBX

Insufficient cooling water circulation in a refrigeration condenser will have the following effect on the compressor:

- A** High delivery pressure

WRIS

When must sidescuttles in passenger ships where the sills are below the margin line be kept closed and watertight?

- A** During navigation between ports

WRKF

Which one of the listed requirements regarding the general emergency alarm system do not correspond to present regulations? The general emergency alarm system shall:

- A** be capable of operation from fire stations aboard the ship

WRQF

A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?

- A** Under the forecastle.

WRTD

\*How often are "abandon ship" drills required to be held on cargo vessels?

- A** Once every month

WRUH

The type of Inmarsat station A,B,C,M is recognized by

- A** the first digit of the identification

WRYM

During operation: What is one of the most important differences between a centrifugal pump and a piston pump?

- A** It is easier to damage a centrifugal pump than a piston pump if they run dry.

WRYO

What separation temperature is recommended for lubricating oil of a trunk piston engine operating on HFO

- A** 95 Celsius





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WSBC

The thermal insulation provided to the wearer of an immersion suit made of material with inherent insulation is sufficient to ensure that the wearers body core temperature does not fall more than:

- A 2°C after a period of 6 h immersion in calm water at a temperature of 0°C ... 2°C

WSDQ

An excessive pressure drop across a lube oil strainer could indicate:

- A That the strainer needs cleaning.

WSEL

With maintenance of batteries it is of primary importance that:

- A the space where the batteries are stored is properly ventilated

WSGV

The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

- A Means of escape - escape routes

WSLD

What are the prerequisites for a collective wage agreement to be applied to service on NIS ships?

- A That the collective wage agreement states (1) that it applies to such service and (2) that the agreement is subject to Norwegian laws and Norwegian courts of law unless courts of another country is explicitly mentioned

WSMA

At sea there is a container adrift which can be a danger for navigation. The call starts with:

- A SECURITE (3x)

WTJH

\*Which of the following detailed explanations should be mentioned in the Training Manual ?

- A The use of radio life-saving appliances

WTTL

Why are accommodations spaces separated from the remainder of the ship by thermal and structural boundaries.

- A To provide means of escape for the passenger and crew

WTUD

When we are measuring salinity with a salinometer, the sensing device is:

- A Electrodes

WTUD

When we are measuring salinity with a salinometer, the type of sensing device is:

- A Electrodes

WTVT

At which of the pressures shown should the low oil pressure trip operate on a freon compressor?

- A + 1.0 bar



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WTWR

Read this text and answer this question: What should be given to prospective seafarers?

**A** Approved training

WTWV

Referring to the SOLAS convention, how often should a crew member on a cargo ship participate in one abandon ship drill and one fire drill?

**A** Monthly

WUAA

The book " Excerpts from the Norwegian Ship Control Legislation" has notes about whether international regulations have been implemented by Norway. Where can you find these notes?

**A** In the main Section numbered VII

WUFC

What advantage(s) has the use of Inert Gas System on a oil tanker?

**A** Lowers oxygen content in the tank

WUFW

What is the meaning of this symbol ?

**A** Fasten seat belts

WUIH

What is a MSDS ?

**A** A publication which contain all information regarding the product in question and should be posted in public areas so all crewmembers have access to the necessary information.

WUIM

Which of the given options best describes the term Gas Dangerous Spaces or Zones onboard liquefied gas carriers as defined in the IMO Gas Codes?

**A** Gas dangerous areas onboard gas carriers are cargo compartments and cargo piping, hold spaces and other spaces where cargo pipes are located, compressor and pump room, open deck over cargo area

WUIO

What does ODME mean?

**A** Oil Detection Monitoring Equipment.

WURM

What pressure is present in the crankcase of a freon compressor?

**A** The same as suction pressure.

WURR

What do you have to ensure when pumping from double bottom tanks to day- and settling tanks?

**A** That the pump is stopped in time to avoid overflowing.

WUUC

What is the secondary purpose of a VHF-installation onboard?

**A** To take part in public traffic



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- 
- WUVR** Which one of the listed requirements regarding equipment for inflatable liferafts do not correspond to present regulations? The inflatable liferaft shall be fitted with:
- A** a buoyant lifeline bucketed around the outside of the liferaft
- 
- WUWJ** Which of the following frequency bands would most likely provide reliable communications between two stations that are 100 miles apart?
- A** The Medium Frequency (MF) band.
- 
- WUWN** What transmitting equipment as a rule is not allowed for us in territorial waters:
- A** MF-transmitters
- 
- WUWN** What transmitting equipment as a rule is not allowed to be used in territorial waters:
- A** MF-transmitters
- 
- WVDH** What will happen when the ship arrives in Rotterdam?
- A** They have to bunker fuel oil and diesel oil
- 
- WVFS** \*How long does it take for a fixed low expansion foam fire-extinguishing system of an engine room to discharge a 15 cm thick layer of foam on the largest single area over which oil fuel is liable to spread?
- A** Less than 5 min
- 
- WVHL** Halons are decomposed in toxic products when they are applied at temperatures near
- A** 500 °C
- 
- WVKS** The buoyancy and the stability of a lifejacket is sufficient to turn the body of an unconscious person in the water from any position to one where his mouth is clear of the water in not more than:
- A** 5 sec
- 
- WVLL** Choose the group of electrical power supplies that best fits the identification of "Emergency"
- A** Emergency diesel and batteries
- 
- WVLQ** When double banking whilst underway, it is preferable for one vessel to maintain steerage way in a constant direction while the other manoeuvres alongside it. During this period it is recommended that:
- A** The wind and sea should be from ahead or nearly ahead
- 
- WVMK** Why shall engine and boiler rooms be kept clean and oil spillage removed?
- A** To reduce danger of fire and the risks of sliding.
-



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WVMK

Why shall engine and boiler rooms be kept clean and oil spillage removed?

**A** To reduce risk of fire and the risk of slipping.

WVMM

This amplifier circuit is a very common configuration used to amplify the difference in voltage between two input signals; in this case input 1 and 2. What is this amplifier called?

**A** Differential amplifier

WVNC

\*The weak link of a float-free arrangement for liferafts must break under a strain of:

**A** 2,2 kN ± 0,4 kN

WVQO

What will the effect be, if you have a fuel injector valve that is dripping after the injection is finished ?

**A** Damage to piston and liner.

WVGO

How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

**A** Weekly

WWKT

The brine used to salt meat contains nitrites. What do nitrites do to the meat?

**A** Makes the meat take on a reddish colour after preparation.

WWLL

On the figure 4 possible definitions of the term "FORECASTLE" are given. Which one is the correct one?

**A** Forecastle is given by B on the figure

WWME

What will the cadet find in the maintenance manual?

**A** He will find a lubricating chart in the maintenance manual

WWND

Which hazardous good is contained in class 5.2 according to the IMDG code?

**A** Organic peroxides.

WWNH

Define the class of emission G3E :

**A** Radiotelephony - Phase modulation

WWOX

Who will carry out a Certificate of Fitness survey

**A** MCA only



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

WWTX

What is the main difference to surveys with the introduction of Harmonization of Statutory Certificates

- A** All safety surveys except Passenger Certificate will be carried out at the same time every 5 years

WWYS

If making a new pilot ladder onboard, which of the following ropes would you use in its construction as side ropes on which the steps are fastened?

- A** Uncovered manila rope.

WXCD

Which one of the listed requirements regarding hand flares do not correspond to present regulations?  
The hand flare shall:

- A** emit smoke of a highly visible colour

WXDB

The capacity of a battery is expressed in:

- A** volt x hours

WXEU

What happens to green vegetables when exposed to the presence of ethylene gas?

- A** They turn yellow

WXFP

One of the sailors needs urgent medical assistance. The VHF-call starts with:

- A** PAN PAN (3x)

WXFR

\*How long may the signal of a detector be left unacknowledged before it begins to ring automatically in every crew accommodation spaces, service spaces, control stations and machinery spaces of category A?

- A** 2 min

WXJR

What is the meaning of the term "valve clearance"?

- A** The clearance between the rocker arm and valve pushrod.

WYCJ

Which item among those below is included in the normal equipment of every lifeboat ?

- A** six hand flares

WYFH

Is a violation of the provision relating to medical examination of seafarers punishable?

- A** Yes, as per the General Civil Penal Code Chapter 42

WYSA

If the general/fire alarm are sounding, and evacuation is required. What is the best way to ensure that all passengers are aware of the situation?

- A** Public announcement system to be used for informing. The cabin attendant should proceed to their cabin section, and search all cabins. If the area is inaccessible report to their superior.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- WYUO** When cleaning stainless steel tanks, it is generally required that the last water wash be of fresh water to avoid salt water or chloride damage. However, if you took fresh water from ashore and found the water chlorinated for disinfections purpose, you would:
- A** Normally use it, as free or dissolved chlorine is not aggressive towards stainless steel?
- 
- WYWC** Cargo compressors are fitted on LPG carriers as part of the cargo and vapour handling system. Why is it important to bar over an LPG compressor before starting it up?
- A** To prove there is no liquid in the cylinders.
- 
- WYWC** Cargo compressors are fitted on LPG carriers as part of the cargo and vapour handling system. Why is it important to bar over a piston type LPG compressor before starting it up?
- A** To prove there is no liquid in the cylinders.
- 
- WYXA** A decrease in the viscosity of the lubricating oil in a trunk engine may be due to dilution by:
- A** Diesel oil.
- 
- WYXD** Where would you look for information on the ratings applied to a vessels fire ratings on her bulkheads, based on SOLAS requirements?
- A** - The Cargo Ship Safety Construction Certificate.
- 
- WYXW** What can be used to reduce the effect of the state of sea-waves?
- A** Vegetable / Fish Oil
- 
- WYYU** The type-indication of the radio set is mentioned in:
- A** the safety certificate (S.C.)
- 
- XAAT** What is the main reason for having deck water spray systems on liquefied gas carriers?
- A** All ships carrying flammable cargoes must have deck water spray to flush cargo spill overboard and cool cargo area if fire
- 
- XAAV** The air cock on a boiler is located at
- A** Highest point of the steam and water drum
- 
- XABR** What will happen in a purifier bowl if either; oil density, viscosity or flow increase
- A** The interface moves outwards
- 
- XAKS** Is it recommended to adjust the spring tension on the fuel valves during operation to achieve:
- A** Not recommended at all



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XAKS

Is it recommended to adjust the spring tension on the fuel valves during operation to achieve:

A Only on the fuel injection valve test rig.

XALN

This is a simplified block diagram of a dc generator and its voltage regulator. Find the value of the feedback constant H if the reference VR is a 45-Volt battery and the terminal voltage  $V_t$  is to be 250 Volt.

A  $H = -0.178$

XAML

U-tube manometers are often used to measure differential pressure. Which of the listed pressures are U-tube manometers mostly used for?

A Low differential pressures

XAML

U-tube manometers are often used to measure differential pressure. Which of the listed pressures is U-tube manometers mostly used for?

A Low differential pressures

XAMN

With no.1 and no.2 alternators running in parallel and the kW loads equally shared, one alternator is drawing much higher current than the other. What does this indicate?

A The alternators are not generating the same voltages and should be adjusted on automatic voltage regulator rheostats

XAPL

What is meant by the expression Slave Controller?

A The secondary controller in a cascade control system

XAPT

Which is the "CENTRE LINE", in the figure?

A Centre line is given by A on the figure

XAQK

What was blocking the grease pipe?

A Grease was blocking the grease pipe

XAQS

Choose the resistance R from the list A to D which allows highest possible current without exceeding 5W power consumption.

A  $R(S) = 25 \text{ ohm}$

XATX

One of the checks during the annual Class survey of the UMS functions is focusing on cleanliness of the engine room. What is the reason for such a check ?

A To reduce the general risk of fire in an unmanned engine room.

XAVI

A frequency of 150 MHz has a wavelength of :

A 2m



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**XBEC** The majority of large slow speed diesel engines used for main propulsion purposes are direct drive to a fixed pitch propeller? What is the main reason for this arrangement?

**A** A fixed pitch propeller can operate with reasonable efficiency at the same sort of speed

**XBEW** How many maintenance methods must be provided by ships sailing in area A3 and A4

**A** 2

**XBFO** What is the minimum number of firemans outfits that should be carried on a cargo ship?

**A** 2

**XBIB** What is the correct operation of the slow-turning facility fitted to some large 2 stroke main propulsion diesel engines?

**A** Putting in auto order when on stand-by, to be effected every 10 - 15 minutes

**XBQI** What refrigerant temperature would you expect to find at the compressor suction of an air conditioning system?

**A** + 5 ° C

**XBQJ** Which official body would be notified about a death on board

**A** Register of Shipping and Seamen

**XBSC** For calling a coast-station by mariphone one should preferably use:

**A** a working channel of the nearest shore-station of that coast-station

**XBSD** Give the meaning of this symbol:

**A** lifebuoy with light and smoke

**XBSE** The letter 'X' in the answer-back 36572 LIBK X means:

**A** This concerns a mobile station

**XBTP** Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A:

**A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver

**XBTP** Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A2:

**A** 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XBTW

Abnormal discharge temperature can be caused by

**A** All alternatives

XCAI

Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

**A** If the hot work is to be carried out at the bottom of the tank, the entire bottom shall be thoroughly cleaned and all sediments removed.

XCFI

What mode must be used on the MF/HF transmission, when transmitting a telex-message:

**A** F1B/J2B

XCFJ

The last part of the bunkering are the critical one, when you are topping up the tanks, the possibility of an overflow and oil pollution to the water are at risk. What is the correct procedure for topping tanks?

**A** Reduce the rate of flow, and topping up one by one tank

XCHD

With the VHF on board there has to be:

**A** a license

XCNV

Define the class of emission F3E :

**A** Radiotelephony - Frequency modulation

XDAR

After the full inception of GMDSS the use of the H3E mode on 2182 kHz, is no longer allowed because:

**A** DSC has fully taken over watch-keeping on 2187,5 kHz

XDGC

What is the explanation (definition) on Short Term Exposure Limit (TLV-STEL)?

**A** All mentioned.

XDGE

\*What is the inherent danger in the use of halon to extinguish an extensive fire?

**A** Development of toxic gases?

XDIN

During a stay in port, what shall always be ready at the gangway?

**A** Life buoy with line

XDIW

Before extinction of an electric fire we need

**A** To disconnect the power source



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- XDPI** You are involved in the discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level in a tank during crude oil washing? (IMO Reg)
- A** 8 %
- 
- XDYT** What is Hz the abbreviation for?
- A** Frequency in an Alternating Current (AC)
- 
- XEAC** On a crude oil tanker what precaution, if any, should be taken when using the slop tank as the source of oil supply for crude oil washing, to prevent the possibility of an electric charge being built up?
- A** Discharge the slop tank completely first then refill it from a cargo tank from which a layer of 1 metre has already been discharged.
- 
- XECW** Give the meaning of the following symbol:
- A** davit launched liferaft
- 
- XEEG** The display of the DSC-controller on board is showing the following lines: (see original) The text TX4 means:
- A** this message is stored in the memory under TX4
- 
- XEFB** In which publication do we find information about the most common liquefied gases?
- A** In ICS Tanker safety guide
- 
- XESU** The cooling water temperatures in and out of the engine become too high. What is the most probably reason for this?
- A** The control valve for the cooling water cooler is sticking.
- 
- XETN** \*Among working conditions listed below which one is required for every propulsion engine of lifeboats?
- A** Starting achieved within 2 min of commencing the start procedure at an ambient temperature of -15°C
- 
- XEUD** If a person is in a state of shock, what of the following is the correct thing of you to do?
- A** Treat and reassure the casualty and stay with the person at all times.
- 
- XEXE** Which of the following alternatives summarise the benefits of using high voltage on ships?
- A** Smaller conductors, machines and switchgear
- 
- XFHP** Under what circumstances may a watch-keeping engineer undertake other duties?
- A** When he is properly relieved.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- XFIN** Are there any differences between "Clean Ballast Tanks" (CBT) and "Segregated Ballast Tanks"(SBT)?
- A** CBTs cargo tanks are also used for ballast, SBTs are not.
- 
- XFMY** On board cargo ships an abandon ship drill must be performed for all the crew
- A** every month
- 
- XFOH** How many classes is specified in the IMDG-Code?
- A** 9
- 
- XFOI** At the entrance to the space where batteries are stored on board the following notice must be fitted:
- A** no entry with naked light and/or flame
- 
- XFQV** You will be at sea for 45 days with a crew of 30 men. How many tomatoes would you buy?
- A** 35 kg
- 
- XFQV** You will be at sea for 45 days with a crew of 30 men. How much tomatoe would you buy?
- A** 35 kg
- 
- XFQV** You will be at sea for 45 days with a crew of 30 men. What quantity of fresh tomatoes would you buy?
- A** 35 kg
- 
- XFRU** What equipment is provided in a liferaft to help you keep warm in cold weather?
- A** The floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)
- 
- XFUD** Which is the "MOORING BUOY", in the figure?
- A** Mooring buoy is given by B on the figure
- 
- XFYK** A ship is fitted with davit launched liferafts. How often should onboard training take place, including, when practicable, the inflation and lowering of a liferaft?
- A** Every four months
- 
- XGHL** What is the name of the IMO publication giving guidance in Search and Rescue operations?
- A** MERSAR



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XGHQ

On the air compressors crankcase there is a small valve that lets off overpressure. What do we have to do if this valve is letting off pressure and oil moisture ?

**A** Overhaul the compressor unit.

XGIJ

You are duty officer on the bridge. A person is reported missing. Which of the following actions are to be considered as the correct manoeuvre in this situation?

**A** Scharnow Turn

XHCJ

The discharge pressure of a freon compressor gradually falls below the desired value. What action would you take to increase the pressure again

**A** Reduce the sea water flow through the condenser.

XHDE

Which method is used to make a physical connection between a rescue vessel and a wreck?

**A** Rocket line

XHEB

Which would be the most suitable point in the system to obtain a representative of diesel engine lubricating oil for analysis?

**A** From the lubricating system pipeline on the discharge side of the circulating pump.

XHEB

Which would be the most suitable point in the system to obtain a representative of diesel engine lubricating oil for analysis?

**A** From the system pipeline.

XHGT

What is the acronym FR 01 ?

**A** a AAIC

XHJF

What is the flash point of a Class 3.2 substance?

**A** Lower than 23°C

XHJG

On the figure 4 possible definitions of the term "MOORING BUOY" are given. Which one is the correct one?

**A** Mooring buoy is given by B on the figure

XHJI

On the figure 4 possible definitions of the term "BRIDGE" are given. Which one is the correct one?

**A** Bridge is given by A on the figure

XIAY

Where is the Safety Certificates for ships to be kept?

**A** In the Captain's office



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- XIEB** MF/HF 2187,5 kHz ALL SHIP DISTRESS 2275200 FIRE N 50 00 W 000 10 11:10 EOS What is false regarding the above call ?
- A** This call will normally be followed by an acknowledgment call on DSC
- 
- XIHN** \*A cargo hold containing such cargo as nitrates, chlorates etc which produces oxygen under the influence of heat catches fire. If you have a lot of water at your disposal, how would you deal with this?
- A** Use large quantities of water as soon as possible
- 
- XIPW** What is the number one job for the ship management team when fire break out?
- A** The ship's management team must organise the fire teams and then the teams have to rescue missing personnel
- 
- XIVI** After main power is restored (following a blackout), a timed sequential restart of motor-driven auxiliaries is necessary to avoid:
- A** Generator overload due to many motors starting at simultaneously
- 
- XIWI** Why can wearing sweat rags slung round your neck be hazardous?
- A** The rags may be caught by a revolving shaft.
- 
- XIWI** Why can wearing sweat rags slung round your neck be hazardous?
- A** The rags may be caught by running machinery or power tools.
- 
- XIWJ** The circuit shows a full-wave bridge rectifier. Which electronic component should be connected between a and b in order to obtain reduced ripple voltage to the load RL.
- A** Capacitor
- 
- XIWJ** The circuit shows a full-wave bridge rectifier. Which electronic component will you connect between a and b in order to obtain reduced ripple voltage to the load RL.
- A** Capacitor
- 
- XIYA** Which of the 3 alternatives below is giving an OR-function?
- A** Figure 2.
- 
- XJCC** After receiving a DSC distress alert in a HF-band you must immediately:
- A** listen on the radio-telephone distress frequency in the pertinent band
- 
- XJEW** The display of the DSC-controller on board is showing the following lines: (see original) The text TX6 means:
- A** this message is the 6th message in the memory



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XJGJ

Are we allowed to load ammonia on inert gas?

**A** We are not allowed to load ammonia on inert gas

XJIB

Which of the following parameters does an explosimeter measure?

**A** The percentage of the L.E.L. in the ambient air

XJQK

The self-contained breathing apparatus can be classified according to their air circuit in:

**A** Open and closed circuit apparatus

XJVL

\*Which code regulates the transportation of dangerous goods by sea ?

**A** IMDG

XJVM

The ship is in a sharp turn and the log shows sideways motion to port both forward and aft. Where is the "pivot point" located?

**A** - At a position outside the hull of the ship itself

XJVM

The ship is in a sharp turn and the log shows sideways motion to port both forward and aft. Where is the "pivot point" located?

**A** Outside the ship itself

XJVO

Who issues an international load line certificate for a NIS cargo vessel of 500 gross tons and above?

**A** The recognized classification society, where the vessel is classified.

XJXU

Which item among those below is included in the normal equipment of every lifeboat ?

**A** two hatchets

XJYW

During the loading of a crude oil cargo, what steps should be taken if flow of gas to shore through the vapour return / recovery system reaches the capacity of the shore vapour system or the vessel's own inert gas lines?

**A** Request lower loading rate?

XKNB

What is most important to take with you in a lifeboat if the ship is abandoned?

**A** Warm clothes, blankets and lifevests.

XKNB

What is most important to take with you in a lifeboat if the ship is abandoned?

**A** Warm clothes, blankets and lifevests.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XKOO

Which component does this graphical symbol illustrate?

- A** Resistance temperature sensor

XKPN

The blower air delivery is not sufficient. What is the cause?

- A** Clogged air inlet filter

XKQI

What is the Norwegian Ship Control?

- A** A part of the Norwegian Maritime Directorate, on NIS ships mainly doing unscheduled inspections

XKXS

During a stay in port, what shall always be ready at the gangway?

- A** Life buoy with line.

XKYT

You wish to send an e-mail using the Inmarsat-C installation. The message has to be composed in:

- A** ASCII

XLBJ

What is the main theme of modern safety practice?

- A** Making use of Risk Assessment as a means to improving safety

XLDW

Which class of emission is used for ARQ NBDP transmissions ?

- A** F1B

XLIT

The rudder is hard over, full ahead in deep water. How much lift force remains when the engine is stopped?

- A** About 20%

XL00

In discussing the properties of oil cargoes, which of the following are examples of Aromatic Hydrocarbons?

- A** Insufficient air supply

XL5X

To whom do the certification requirements apply on a NIS cargo vessel?

- A** To persons in certificated positions as per the manning certificate and certificated positions of additional manning, if any

XLYN

A new second mate does not have a British Certificate of Competency, can he be signed on the ship?

- A** yes, provided that he has a Certificate of Equivalent Competency issued by MCA



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XMCY

Two reference points for pressure exist, absolute zero and atmospheric pressure. What do you call pressures measured relative to atmospheric pressure?

**A** Gauge pressure

XMCY

Two reference points for pressure exist, absolute zero and atmospheric pressure. What is the common name pressures measured relative to atmospheric pressure?

**A** Gauge pressure

XMFE

Give the meaning of the following symbol

**A** Radar transponder

XMHR

During execution of a standard UMS-check, the Engineer on Duty is experiencing a "low water level" alarm in a cooling water expansion tank. What will be the appropriate immediate action?

**A** Correct water level is obtained by refilling the cooling system, and the entire system is checked for leakages

XMIP

How much water would you allow per person as officer in charge of the lifeboat, following an abandon ship operation?

**A** Nothing for the first 24 hours, then 1/2 litre or more, if possible, per day

XMKJ

When purchasing cleaning and washing products, what should one look for?

**A** Products with users instructions telling you how and where to use them.

XMKJ

When purchasing cleaning and washing products, what should you look for?

**A** Products with users instructions telling you how and where to use them.

XMKL

Which of the following is a SART transponder frequency :

**A** 9 GHz

XMPH

\*Which of the following instructions or information SHALL be contained in the Training Manual?

**A** use of communication equipment

XMPL

To achieve safe maritime operation, the Norwegian Maritime Directorate works in compliance with:

**A** The International Maritime Organization (IMO)

XNAH

Who may serve as the person in charge of an oil transfer aboard a tanker in a US port?

**A** Only licensed officers





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XNBA

What is the normal carbon content in crude oil?

A Height of liquid in the tank

XNFD

In which of the following processes will the time constant be of minor importance

A Level control

XNFD

In which of the following processes will the time constant be of minor importance?

A Level control

XNGY

A British registered ship with a Polish master on board has some difficulty with the cargo whilst in a foreign port e.g. Spain, from which Consul should the master seek assistance in dealing with the situation?

A Flag state

XNIP

After confirmation that there is no other radio-traffic, we call on a VHF working channel of a coast-station. When you don't get any reply:

A you must wait 3 minutes minimum before repeating your call

XNMW

How much food per person is supplied in a lifeboat?

A Not less than 10000 kJ

XNPG

The necessary elements to create fire are

A combustible, oxygen, heat and chain reaction

XNRP

Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations?

A Be constructed of inherently buoyant material.

XNWV

Why do we insulate the cargo containment?

A To avoid cold cargo to come in contact with the ship's hull

XNYM

Which type temperature sensors are shown on the picture?

A Resistance sensors

XOBX

Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

A seeing that passengers are suitably clad and have done their lifejackets correctly



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XOCQ	Give the command after ga+ for the transmission of a 'store and forward' –message with radio-telex:
A	tlx..+
XOFD	If you want to call a person on shore, it is a:
A	personal call
XOJI	What kind of fuel will originate a class A fire?
A	a solid (cardboard or wood...)
XOKD	Vent fans and fan ducts located in hazardous locations, if made of ferrous materials, require a certain clearance between the impeller tips and the casing (to preclude any sparking). If you are doing an overhaul, you would ensure this clearance is at least:
A	13.0 mm?
XOTD	The effect of reflection of radio waves in the ionosphere on the transmission range also depends on:
A	the seasons
XOVR	Which one of the listed requirements regarding the stowage of liferafts corresponds to present SOLAS regulations?
A	Liferafts shall be stowed with its painter permanently attached to the ship
XOWT	On area A1 the function "Transmission and reception of on scene communications" is mainly based on:
A	the use of VHF R/T
XOYF	What has the Bosun done to prepare the anchoring?
A	He has disengaged the windlass and put the brake on
XPDF	The maximum working pressure of a cargo hose should normally not be less than :
A	10 bar.
XPLR	*An abandon ship drill include definite actings and checkings. Which among the following ones is not mandatory
A	lowering all lifeboats
XPNC	For how long is the health certificate valid for a seafarer in foreign trade?
A	One year.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XPNH

What is the absolutely main purpose with fighting a fire on board?

**A** Rescuing of life

XPNI

A fully laden tanker is in collision with another tanker causing them to interlock. What action/judgement should be considered by both vessels?

**A** Take separation of the two vessels into immediate consideration, but consider that a separation may create a larger oil spill

XPNI

A fully laden tanker is in collision with another tanker causing them to interlock. What action/judgement should be considered by both vessels?

**A** - Take separation of the two vessels into immediate consideration, t consider that a separation may cause a fire and also create a large spill

XPOJ

What is the vessel that has the local command in a rescue operation called?

**A** On Scene Commander

XPV

What must be done if the Oil Discharge Monitoring Equipment (ODME) should fail during a ballast voyage?

**A** All of the mentioned must be performed

XPY

To accommodate expansion of piping on the deck of a chemical tanker the following are fitted:

**A** Natural bends at intervals?

XPRJ

The aerial of an Inmarsat-A installation is gyro-stabilised to:

**A** compensate the movements of the vessel

XPUU

Which item among those below is included in the normal equipment of every liferaft ?

**A** one set of fishing tackle

XPXH

Which one of the following items has to be included in an abandon ship drill according to SOLAS regulations?

**A** Checking that life-jackets are correctly donned.

XPYA

How many lifebuoys can you expect to find on board a passenger ship of 190 metres in length (including those of the quick-release system) ?

**A** at least 24 distributed on both sides of the ship

XQCA

During the survey of Long Range Identification and Tracking (LRIT) equipment, which document must be available to the surveyor to demonstrate compliance with SOLAS?

**A** - The Certificate of Compliance with SOLAS V/19-1, bearing the serial number of the equipment installation.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**XQCL** What kind of fixed extinguishing plant is installed to smother a fire in an oil tanker's pump room?

**A** CO2 plant.

**XQCL** What kind of fixed extinguishing plant is installed to use on an oil tanker's engine room and pump room?

**A** CO2 plant.

**XQJH** Whilst in the engine room you hear the CO2 release alarm, what action, if any, should you take?

**A** Leave the engine room as quickly as possible, closing all doors behind you

**XQJW** Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. What is the Recovery Position?

**A** The patient placed in a "face -to-the-floor" position, and with arms and legs arranged in order to stabilize this position.

**XQKQ** What is the first sign and symptom of a Cardiac Infarction?

**A** Sudden crushing, vice-like pain in the centre of the chest.

**XQKW** What is the purpose of a Medico Message?

**A** Call an hospital for professional medical assistance by radio when needed.

**XQMM** Which muscle is the most persevering one in the body?

**A** The heart.

**XQNF** Pump rooms on oil tankers shall be provided with a fixed fire-extinguishing system. Which of the following systems is in accordance with present regulations?

**A** Fixed CO2 fire-extinguisher system

**XQNF** Pump rooms on oil tankers shall be provided with a fixed fire-extinguishing system. Which of the following systems is in accordance with present regulations? (SOLAS II-2/63)

**A** Fixed CO2 fire-extinguisher system

**XQNI** Which of the following fittings shall be provided to all lifeboats:

**A** handholds on the underside of the hull

**XQQM** Which item among those below is included in the normal equipment of every liferaft ?

**A** one whistle or equivalent



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XRAV

What do you understand with a computers POST system?

- A** A series of tests run by the computer at power on

XRBP

Regular (at least weekly) testing of the emergency generator must be performed to check:

- A** Its readiness to perform as specified

XRBP

Regular (at least weekly) testing of the emergency generator must be performed to check:

- A** Its readiness to perform as specified.

XRGG

This is a parallel L-C circuit with a curve showing frequency- impedance characteristics. Which of the formulae A to D gives the resonant frequency  $f_o$ ?

- A**  $f_o = 1 / (2 \sqrt{LC})$

XRGG

This is a parallel L-C circuit with a curve showing frequency- impedance characteristics. Which of the formulae A to D will you utilize for determining the resonant frequency  $f$ ?

- A**  $f_o = 1 / (2 \sqrt{LC})$

XRGN

The successive stages of all cargo and ballast handling operations on an oil tanker must be recorded on board. What is the name of the book where these details are listed?

- A** Oil Record Book.

XRKU

On area A1 the function " Transmission of ship to shore distress alerts" is mainly based on:

- A** the use of VHF DSC

XROP

One of the Main Engine cooling pumps is down for maintenance. The rest of the cooling pumps are operating near full capacity with minimum margins on the maximum temperature limit. What should be the correct action to take with regard to UMS operation?

- A** Operate the engine room on manual mode until the cooling pump is in operation, switched in stand-by mode.

XROP

One of the Main Engine cooling pumps is down for maintenance. The rest of the cooling pumps are operating on full capacity with minimum margins on the maximum temperature limit. What will be the correct precaution or action to take at the end of the day?

- A** Operate the engine room on manual mode until the cooling pump is in operation, switched in stand-by mode.

XRRF

The printer of a DSC-controller gives the message:(see original) This DSC message was received via:

- A** the DSC-watch receiver

XRRH

What mode is used for broadcast an MF/HF-DSC message:

- A** J2B / F1B



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

**XRVK**

In a heat exchanger where seawater is used to cool fresh water, the seawater pressure should be maintained lower than the freshwater pressure to:

- A** Prevent contamination if leaks are developed

**XSBN**

What is the advantage of a large ship?

- A** They are economical to operate

**XSCY**

Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats do not correspond to present regulations? (SOLAS III/16)

- A** The release mechanism shall be of an automatic type approved by the Administr

**XSES**

What is typical for a continuous control system?

- A** It is possible to predict the control mathematicallylt is possible to predict the control mathematically

**XSGK**

The wave length is:

- A** inversely proportional to the frequency

**XSIX**

HF communication is usually provided by :

- A** sky wave

**XSOW**

What is the best operating conditions for the separator?

- A** Constant flow, clean probes and temperature below 60 Degr.C.

**XSPQ**

Under what circumstances can ships crew raise an official complaint

- A** When the provisions and /or water is unfit for consumption

**XSPR**

The normal mode of operation for each coast station shall be indicated in:

- A** The ITU List of Coast Stations

**XSRF**

Who would carry out a radio survey on an UK ship?

- A** Authorised radio surveyors employed by Marconi

**XSVL**

You are taking fuel on your vessel in the US when you notice oil on the water around your vessel. You are to stop taking fuel and:

- A** Notify the US Coast Guard



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

XTEQ

An area A2 is:

- A** an area excluding sea area A1 within the radiotelephone coverage of at least one MF coast station in which continuous DSC alerting is available

XTGI

If the water and oil have emulsified, is it possible to remove the water in the separator

- A** No

XTHE

What will apply when loading Ammonium Nitrate Solution 93 % or less ?

- A** The acidity (ph) of the cargo should be between 5 and 7 when diluted with 10 parts of water to one part of cargo.

XTLK

Why is the maximum pressure in a Plate Heat Exchanger usually limited to about 10 bar?

- A** Difficult to seal plates above this pressure.

XTMX

What is the meaning of this symbol ?

- A** Start water-spray

XTTR

The hydrostatic release unit used in the float-free arrangements will automatically release the liferaft at a depth of not more than:

- A** 4 m

XTUM

In which way may intake of poisonous material occur?

- A** All mentioned.

XTVH

What is the primary duty of a watch-keeping engineer?

- A** The primary duty of a watch-keeping engineer is to maintain constant surveillance of the main engine and auxiliary machinery

XTVH

What is the primary duty of a watch-keeping engineer?

- A** To keep constant surveillance of machinery and auxiliary systems.

XUFH

On which cargoes should all operations be entered in the Annex II Cargo Record Book.

- A** Only cargoes included in one of the categories, A, B, C or D.

XUOI

\*Class "C" bulkheads are bulkheads constructed of approved non-combustible materials:

- A** that need not meet any of the requirements relative to smoke and flame nor limitations relative to temperature rise



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- XUON** \*When the fire alarm signal is sounded every member of the ships crew shall immediately proceed to their assigned fire station. Which one of the following signals is used as fire alarm signal on board cargo ships?
- A** Intermittent signals on the ship's alarm bells
- 
- XUOR** Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?
- A** If it is decided that work shall be carried out, the decision and the reason for it shall be entered in the ship's log book.
- 
- XUWB** A SART must, when the vessel sinks:
- A** be taken by the crew to the rescue-boat and turned on manually
- 
- XUXV** One has to check the SART-unit:
- A** on the date of replacing the battery
- 
- XUYL** What are the duties of a master if a seafarer gets ill at sea?
- A** All the other mentioned alternatives according to the situation
- 
- XVAJ** What is low lightning system?
- A** A system that's displaying the way to the nearest exit from all locations onboard, by using flurosent signs at floor level, or light system powered by battery.
- 
- XVBW** A chemical tanker will carry cargoes of isophorone, ethylenediamine, and creosote. Which of the following is TRUE?
- A** All of these cargoes are incompatible.
- 
- XVIM** Abdominal Thrust is the name on a technique which involves applying a series of thrusts to the upper abdomen in an attempt to force air out of a choking casualtys lungs. How to perform this technique?
- A** Stand behind the casualty. Clench your fist with the tumb inwards in the center of upper abdomen. Grasp your fist with your other hand and pull quickly inwards.
- 
- XVJN** When will we notice the effect of shallow water?
- A** When Under Keel Clearance is 50% or less
- 
- XVMA** Your ships initial speed is half ahead and your engine is put full astern. How will the stopping distance be compared to full speed?
- A** It will be much shorter
- 
- XVMY** A distress-call received via RCC should:
- A** only be given receipt, if the master has confirmed that assistance indeed can be given





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

<b>XVPE</b>	The Inmarsat Maritime Communications Manual contains tables of:
<b>A</b>	telephone country codes
<b>XVTJ</b>	If any, which of the below provisions have been amended as a consequence of the amendments to STCW 95 concerning hours of rest?
<b>A</b>	The hours of work Act and the NIS Act.
<b>XVXP</b>	How many annexes do we find in MARPOL 73/78 and what is the content of annex 1?
<b>A</b>	We find 5 annexes in MARPOL 73/78 and annex 1 is the regulations for the prevention of pollution by oil
<b>XWEN</b>	What is the search pattern system called where 1 ship and 1 plane are involved ?
<b>A</b>	Coordinated Crab
<b>XWMR</b>	When navigating using the GPS, how does the GPS display indicate when the accuracy of the displayed position is reduced?
<b>A</b>	Visual and radar observations
<b>XWNM</b>	To maintain a high overall hygienic standard, what do you consider important to do?
<b>A</b>	Daily cleaning in cabins, messrooms, galley, etc.
<b>XWSI</b>	How come that rules and regulations change over time?
<b>A</b>	Over time we got more experience with products and systems that give us reason to change rules and regulations
<b>XWWU</b>	What is the main reason for adding inhibitors to some liquefied gas cargoes such as ethylene oxide and vinyl chloride?
<b>A</b>	Inhibitor is used to prevent polymerisation of the cargo
<b>XXBP</b>	What action should be taken if it is noticed that there is a quantity of oil on the engine room tank top?
<b>A</b>	Notify Ch.Eng., find cause of leakage, remedy the leakage and then immediately start cleaning of the tank top.
<b>XXBT</b>	What is one of the main features of the cylinder lubricating oil used in large 2 stroke marine diesel engines which normally operate on heavy fuel oil?
<b>A</b>	alkaline.
<b>XXBT</b>	What is one of the main features of the cylinder lubricating oil used in large 2 stroke marine diesel engines which normally operate on heavy fuel oil?
<b>A</b>	It is strongly alkaline.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- XXCN** An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do?
- A** Go to your lifeboat station
- 
- XXCO** \*In a ship that is not fitted with a main fire control room, where is the control panel of a fixed fire detection system located?
- A** On the navigation bridge
- 
- XXYE** On an OBO or O/O carrier one frequently finds electrical sockets and switches on deck for use of lighting and other electrical apparatus when operating in the dry cargo mode. Before loading oil these should be:
- A** Electrically isolated by special isolating switchboxes in the accommodation and the keys of these retained by a responsible officer?
- 
- XYBO** A ship experiences an interaction effect known as "Squat" when moving in shallow water. The amount of Squat is affected by the speed of the vessel through the water. If the speed through the water is HALVED what will be the change in the affect of "Squat"
- A** - The squat effect will be reduced to a quarter of its original value
- 
- XYFU** Give the meaning of the following symbol:
- A** davit launched liferaft
- 
- XYFY** Editing and publication of the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc." is done by:
- A** The Norwegian Maritime Directorate
- 
- XYFY** Editing and publication of the book "Excerpts from the Norwegian Ship Control Legislation" is done by:
- A** The Norwegian Maritime Directorate
- 
- XYGW** All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/9.1 - 9.2).
- A** Manoeuvring levers/wheels for mechanically operated ports shall be properly secured when not in use.
- 
- XYPU** You are in charge of discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level in a tank during crude oil washing? (IMO Reg)
- A** 8 %
- 
- XYPY** Which component does this graphical symbol illustrate?
- A** Remote level controller with indicator
- 
- XYQS** A ships 3 - phase a.c. system has 440 V and 220 V sections. The effect of a single earth fault on a 220 V line will cause the following earth lamp indication:
- A** In 440 V section: Two lamps bright. In 220 V section: Two lamps bright.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- XYQS** A ships 3 - phase a.c. system has 440 V and 220 V sections. The effect of a single short circuit fault to earth on a 220 V line will cause which of the following earth lamp indications:
- A** In 440 V section: Two lamps bright. In 220 V section: Two lamps bright.
- 
- XYXF** Which of the following is not systematically transmitted in a DSC distress call
- A** name of the ship in distress
- 
- YADO** How is an wrong entry in the Official Log book corrected
- A** The entry is left as it is. An additional entry is made referring back to the erroneous entry and noting what the correct entry should read
- 
- YADQ** What is the anticipated rolling period of a ship with a large initial Transverse Metacentric Height (GM) and would there be any associated dangers to consider?
- A** Short sharp period of roll associated with breaking lashings and shifting cargo
- 
- YAHQ** What types of Merchant Shipping Notices are published by the MCA
- A** Merchant Shipping Notices (MSNs), Marine Guidance Notes (MGNs) and Marine Information Notes (MINs)
- 
- YAJD** On the figure 4 possible definitions of the term "UNDER KEEL CLEARANCE" are given. Which one is the correct one?
- A** Under keel clearance is given by C on the figure
- 
- YAKE** In a US port and according to the Code of Federal Regulations, a Declaration of Inspection must be completed before a transfer of oil cargo can take place. Who is responsible for preparing this Declaration?
- A** The ship's officer in charge of the oil transfer
- 
- YAKE** In a US port and according to the Code of Federal Regulations, a Declaration of Inspection must be completed before the transfer of an oil cargo can take place. Who is responsible for preparing this Declaration?
- A** The ship's officer in charge of the oil transfer
- 
- YAPA** When tuning a cascade control system, where do you start
- A** The slave controller with the master controller in manual mode
- 
- YAPA** When tuning a cascade control system, where do you start?
- A** The slave controller with the master controller in manual mode
- 
- YAPE** Which item among those below is included in the normal equipment of every liferaft ?
- A** two sponges



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YARM

Multipurpose dry chemical powder

- A will conduct electricity with very high voltage

YATK

With a distress alert via an Inmarsat-A terminal it is recommended to use the telex-mode because:

- A all vessels in the Ocean Region concerned can read it

YAVX

What will you do if you are helmsman and the OOW (officer on watch) gives you the order: "Port 20" and after a while the order: "Ease to 10"?

- A Turn the rudder towards midship, but normally not all the way to midship position

YAVX

What will you do if you are helmsman and the OOW (officer on watch) gives you the order: "Port 20" and after a while the order: "Ease your helm"

- A Turn the rudder towards midship, but normally not all the way to midship position

YAVX

What will you do if you are helmsman and the OOW (officer on watch) gives you the order: "Port 20" and after a while the order: "Easy to 10"

- A Turn the rudder towards midship, but normally not all the way to midship position

YAWR

What was the cadet to be aware of when using the needle gun?

- A He should be aware of the steel thickness of the valve

YBEA

In daytime, as a result of sunlight, the number of layers of ionisation will:

- A increase

YBGW

One of these pumps lacks self priming capacity.

- A Centrifugal pump.

YBHU

What do you call the method used for bone-soft part injuries?

- A ICE-method.

YBJC

What does the image indicate?

- A They are to let go of the stern lines

YBRQ

The MF-band is in the frequency range:

- A 300 - 3000 kHz



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YBTF

What pressure shall a cargo hose be marked with?

- A** Maximum allowable working pressure

YCAS

Where should the placard you are shown be located, according to U.S. Coast Guard regulations ? (Title 33-Navigation and Navigable waters, § 155.440 )

- A** Both in a conspicuous place in each machinery space and in a conspicuous place at the bilge and ballast pump control station

YCDB

Consider the situation sketched below. What can happen if the tugmaster is not careful?

- A** The tug may be sucked into your stern with danger of striking the propeller

YCDF

For how long time should a SART transponder be able to operate in the stand by mode ?

- A** 96 hours

YCEY

At what time should the duty engineer perform his evening UMS rounds?

- A** At any time, provided he is confident that the engine room will operate in a safe and efficient manner for the period it will be left unattended.

YCIJ

What kind of cleaning product would you use to remove spilled oil and fat in the galley and pantry?

- A** Neutral to Alkaline solution.

YCKT

Define the class of emission G3E :

- A** Radiotelephony - Phase modulation

YCLM

What are the masters duties if punishable acts are committed on board?

- A** If at sea, the master shall immediately undertake an investigation, secure evidence and take statements, inform Norwegian Consulate/Maritime Directorate

YCLR

The PTT-switch must be:

- A** pressed in constantly to work duplex

YCRJ

The comburent is

- A** the oxidising agent in the presence of which fuel may burn. The oxygen is a comburent par excellence

YCRN

What personal protective equipment would be required for working over side

- A** It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- YDAV**                      \*What is the chapter of the SOLAS that regulates all themes related with such matters as fire protection, fire detection and fire extinction?
- A**    Chapter II-2
- 
- YDTC**                      What is the normal slow down/shutdown temperature for the jacket cooling water outlet from a diesel engine cylinder?
- A**    95° C
- 
- YDUN**                      A faint is a brief loss of consciousness of no more than    momentary duration caused by a temporary reduction in the flow of blood to the brain.How to prevent anyone from fainting?
- A**    Tell the person to sit down and lean forward with the head between the knees taking deep breaths.
- 
- YDVL**                      Which of the following requirements regarding embarking, disembarking and stowage of vehicle on ferries corresponds to present regulations? (NSCL 4/11.4).
- A**    During crossing, ports on the car deck shall be closed and battened.
- 
- YDWL**                      The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. He should:
- A**    Not allow the clothes to be hung anywhere in the unmanned machinery spaces
- 
- YDWL**                      The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. Should he:
- A**    Not allow the clothes to be hung anywhere in the unmanned machinery spaces
- 
- YEDY**                      What does MARPOL 73/78 require in respect of the contents of lines and pumps on an oil tanker at the completion of discharge?
- A**    To comply with MARPOL requirements
- 
- YEIA**                      What class of fire involves gas?
- A**    Class C fire
- 
- YESY**                      What do we have to do if the lube oil becomes yellow/white (mixed with water) ?
- A**    Change the lube oil.
- 
- YEYS**                      Is piracy an increasing or decreasing problem?
- A**    Piracy is increasing
- 
- YFBB**                      What is evaporation?.
- A**    A liquid change to gas.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YFBK

\*What is the inherent danger in using halon to extinguish an extensive fire?

A Development of toxic gases?

YFKM

If the reeferplant obtain air in the system , where do You want to vent the air out?

A From the condenser.

YFKP

Which of the connections you are shown, are the dedicated shore connection (MARPOL-connection) for discharging of sewage ?

A 4

YFPM

What is the meaning of the abbreviation PCB

A Printed Circuit Board

YFQI

Which of the following services is not provided by INMARSAT C:

A Telephone

YFXS

In general cleaning it is recommended and suitable to use cleaning products which are:

A Neutral.

YFYM

Soot blowers should be used in proper sequence so that

A Soot would be swept toward the uptakes

YGBV

Many large slow speed diesel engines operating on heavy fuel oil have a fuel injection system which features Variable Injection Timing. How does this affect engine operation?

A VIT increases engine efficiency by automatically maintaining the maximum cylinder

YGGF

What is the difference between filtration and separation

A Water can be removed in the separator but not in the filter

YGJV

A person wearing an anti-exposure suit shall be able to:

A swim through the water at least 25m and board a survival craft

YGMX

On board they want to send a safety-call to other vessels. The DSC safety-call:

A Has to contain a work-frequency



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YGNT

Give the meaning of the following symbol:

**A** lifejacket

YGVH

Does liquid turbulence improve the efficiency of a Plate Heat Exchanger?

**A** Yes.

YHAK

What is the pumping capacity depending on?

**A** Total pressure head

YHDN

What colour flare is used to signal a safe landing place for small boats ?

**A** Green

YHFJ

Which of the following features is required for an anti-exposure suit ?

**A** can be unpacked and donned without assistance within 2min.

YHJP

An immersion suit is constructed such that it can be unpacked and donned within:

**A** 2 min

YHQE

Your vessel is a tanker in ballast and the two vessels are interlocked after collision. You have already made clear that all people are well taken care of and you will try to separate the two vessels. What should be your greatest concern?

**A** That the separation may cause sparks that can possibly ignite the oil or any other flammable substances.

YHQE

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**A** That the separation may cause sparks that can possibly ignite the oil or any other flammable substances.

YIEH

A radio-wave travels in the air at a speed of:

**A** 300.000 kilometres per second

YIHT

What is understood by assigned frequency?

**A** the frequency actually used by transmitter and receiver

YIIO

Where in a passenger ship is furniture, due to fire protection, to be kept to a minimum? (SOLAS II-2/34.6)

**A** In stairways and corridors





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YIKG

Must you be certified to be a lifeboat-commander?

- A** Yes, you must attend to a course held by certified personnel, and then be certified by national authorities (NMD, USCG, etc)

YIPI

Classification societies require that when initially fitted to a boiler, safety valves must be subjected to a test of accumulation of pressure. Is this to:

- A** Ensure the valves are of the correct discharge capacity for the boiler.

YISM

In some trades cargo hoses are carried onboard. These hoses are normally checked and tested annually. Amongst other testes and checks, a pressure test is done. The latter shall be done up to the working pressure of the hose plus:

- A** 25 %

YITG

Epoxy coatings in tanks, which have been stressed beyond their chemical resistance during the carriage of strong solvents, tend to soften (you test for this with your nails or with standardised test pencils). If you encounter this condition you would:

- A** Give the coating time to "weather out" the trapped solvents using good ventilation, and recover it's hardness again, prior loading the next cargo?

YIVB

How do you express the accuracy of an instrument

- A** In % of full scale

YIXM

Secrecy in maritime radio traffic means that:

- A** received messages, which aren't intended for own ship are not passed on

YJCA

What is the minimum Initial Transverse Metacentric Height (GM) allowed under the International Load Line Rules?

- A** 0.15 metres

YJCM

Of the AM-signal:

- A** amplitude is variable and frequency of carrier wave is constant

YJGQ

\*What are the main components of the atmospherical air?

- A** O2: 21% N2: 78% H2O: traces CO2: traces Rare gases: traces

YJIM

Liquefied gases are often carried at boiling point at atmospheric pressure with both liquid and vapour present in the cargo tank. The change of state from liquid to vapour requires heat energy. What term is used for the quantity of heat required to change a liquid to vapour without an increase in temperature?

- A** The heat given to or given up from a substance is called latent heat

YJMJ

Is it necessary to cool the water samples from the cooling system, before testing?

- A** Yes, must be cooled to 25 Degr. C.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YJMJ

Is it necessary to cool the water samples from the cooling system, before testing?

**A** Yes, the samples should be cooled to approximately 25 C.

YJNK

How often should boiler water tests be carried out on a steam boiler?

**A** Every day.

YJNK

How often should boiler water tests be carried out on on a steam boiler?

**A** Every day.

YJOA

Who has the legal responsibility for the placing and stowing of the cargo onboard?

**A** The Stevedore company?

YJRK

What is the main reason for sometimes having a separate forced lubrication system for the camshaft on large cross head engines?

**A** To prevent any fuel leakage from the high pressure fuel pumps contaminating the oil in

YJRK

What is the main reason for sometimes having a separate forced lubrication system for the camshaft on large cross head engines?

**A** To prevent the circulating oil in the crankcase from being contaminat with fuel oil

YJTI

Which one among the following information shall be marked on the container of an inflatable liferaft:

**A** the number of persons the liferaft is permitted to carry

YJUB

\*Give the meaning of the following symbol

**A** Fasten seat belts

YKDF

What is definition on clean water?

**A** Water with less than 15 ppm vitiation of oil

YKIE

During ship to ship transfer operations it is common to use the terms primary and secondary fenders. Primary fenders are:

**A** Large fenders meant for floating between vessels and absorbing considerable impact. Example of fender size: L - 4.5 m. Dia. - 3.3 m

YKIE

During ship to ship transfer operations it is common to use the terms primary and secondary fenders. Primary fenders are:

**A** Large fenders meant for floating between vessels and absorbing considerable impact. Example of fender size: L - 4.5 m. Dia. - 3.3 m



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YKKV

\*How much food per person is supplied on a lifeboat?

**A** Not less than 10000 kJ

YKKX

When fitting a mechanical seal consisting of carbon/porcelain rings care should be taken that:

**A** All of the other alternatives.

YKMK

What is a steering wheel?

**A** A wheel with which the ship is steered.

YKNC

In a distress situation and immediately after the distress signal has been sounded, what is the next action to be taken by the Chief Officer on duty?

**A** Use the intercom to inform crew and passengers of the reason for the alarm

YKQR

Intership VHF communications should normally be operated :

**A** In G3E mode - on simplex basis

YKVP

The squelch on a mariphone serves:

**A** to suppress noise

YLDC

Give the meaning of the following symbol

**A** Portable foam applicator

YLEB

The cooling water temperature out of the engine becomes too high. Everything else is normal. What is the reason for this?

**A** Fouled cooling water system.

YLFV

What is the difference between purification and clarification

**A** In a clarifier solids are removed from oil, whereas in a purifier solids and water are removed from oil

YLII

The plate heat exchanger is separated for cleaning. What will You do if the plates is thick with scale or other organic material?

**A** Put the plates in water with qualified cleaning chemicals, and use soft brush, or high pressure cleaner with care.

YLKO

What is a passenger ship according to SOLAS regulations?

**A** A ship which carries more than 12 passengers



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YLLJ

What is the approximate upper flammable limit(UFL) of crude oil vapours by volume in air?

**A** 10 to 11%

YLLL

On the figure 4 possible definitions of the term "FORWARD BREAST LINE" are given. Which one is the correct one?

**A** Forward breast line is given by C on the figure

YLNb

The authority to order the use of distress signal or distress alerts is:

**A** only the master

YLNc

\*Give the meaning of the following symbol

**A** Release falls

YLPV

Can a Norwegian Consulate execute authority on behalf of the Norwegian Maritime Directorate (NMD)?

**A** A Norwegian Consulate has already duties on behalf of the NMD and the directorate can in addition instruct a Consulate to act on the directorate's authority

YLQT

Which of the following signal letters states that the ship is registered in NIS?

**A** LAPQ4

YLRD

When during transmitting the display of a radiotelephone-installation shows a decrease in transmitting power it is:

**A** an indication of aerial problems

YMBN

What are the three Search and Rescue urgency phases

**A** Uncertainty - Alert - Distress

YMCC

On which type of gas carrier can spherical tanks be used for the cargo system?

**A** Spherical cargo tanks are used on all types of gas carrier, fully refrigerated, semi-refrigerated and fully pressurised gas carriers

YMFJ

In the diagram, which letter is pointing at the area known as the "BOW" of the ship?

**A** Bow/stem is given by B on the figure

YMJJ

With the set point at the actual desired value, a temperature control system is giving an unacceptably large offset (difference between set point and measured value) on high load resulting in a low system temperature. Which of the actions given in the options should be taken to reduce this effect and therefore

**A** Reduce the width of the proportional band for the controller.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- YMKS** What is the term used to refer to the valve that prevents backflow of water from the boiler to the feed water system?
- A** Feed-check valve
- 
- YMYA** Your vessel is acting as the on scene commander during a distress rescue. Various vessels are interfering the distress traffic on the VHF. What message would you use to stop them interfering with this traffic?
- A** Seelonce mayday
- 
- YNBN** What do you do after receiving a VHF DSC DISTRESS call ?
- A** You set watch on channel 16
- 
- YNDB** At the end of a radio telex-connection, when a 'store and forward' message has been transmitted, the coast-station at least gives a:
- A** time (in UTC) whereupon the telex for the subscriber is delivered.
- 
- YNDY** The traffic list of a coast-station is a list of:
- A** call-signs of ships for which a radio-telephone call, a telegram or another call is intended
- 
- YNEO** The stability and strength of a liferaft when loaded with its full complement of persons and equipment is such that it can be towed in calm water at speeds of up to:
- A** 5 knots
- 
- YNET** If the refrigerating compressor has been running satisfactorily for a long period of time but suddenly the compartment temperature started to rise, the trouble might be
- A** All alternatives
- 
- YNKQ** Is it possible to discharge a fully-refrigerated gas carrier if brake down on a discharge pump?
- A** Fully-refrigerated gas carrier can be discharged by condensate the cargo to shore or another cargo tank or let it boil off
- 
- YNKS** In the chemical industry the effect on a person of long term exposure to low concentration of a substance is of prime concern. The expression TLV (Threshold Limit Value) is used to express the concentration of a substance in parts per million that must not be exceeded if a person is exposed to a substance for a
- A** 8 hours a day?
- 
- YNPN** After complete shut down of the steam plant, the boiler has been heated in accordance to correct starting up procedure, and is now firing at working pressure. You are going to open the main steam valve to the system. What will be the correct procedure for this operation?
- A** Open steam valve very slowly, considering system expansion.
- 
- YNRG** Give the meaning of the following symbol
- A** Emergency fire pump



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YNRH

\*On-board training in the use of davit-launched liferafts (including inflation and lowering whenever practicable) must take place

**A** every 4 months

YNUN

The radiotelephony two tone alarm should NOT be used when sending which of the following types of messages?

**A** Message concerning an important navigational message.

YNUO

In US waters "Oil Pollution Act of 1990" was activated in August 1993. What is the main issue for the introduction of the act?

**A** To prevent oil spills in US waters?

YNNV

Which statement is NOT true concerning precautions during fueling operations?

**A** Fuel tanks should be topped off with no room for expansion.

YNNV

Which statement is NOT true concerning precautions during fuelling operations?

**A** Fuel tanks should be topped off with no room for expansion.

YNNB

What does atomizing mean when we talk about injectors?

**A** That no solid beam of fuel shall be present

YNNY

What is most important to take with you in a lifeboat if the ship is abandoned?

**A** Warm clothes, blankets and lifevests.

YNNY

What is most important to take with you in a lifeboat if the ship is abandoned?

**A** Warm clothes, blankets and lifevests.

YOAM

What is meant in mariphone traffic with a coast-station by a "personal call":

**A** a telephone conversation with a person whose name is known, department or extension on the telephone number given

YONW

Give the meaning of the following symbol

**A** Sprinkler section valve

YOOK

What would be the effect if air was to enter a freon refrigeration system?

**A** Increase in condenser pressure.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

- YOPO** A vessel at anchor in fog may in addition to the normal signals make an additional signal on its whistle to give warning of her position and of the possibility of collision to an approaching vessel. What is this signal?
- A** One short blast, one prolonged blast, one short blast
- 
- YORY** A person wearing an immersion suit which has its own buoyancy is able to turn from a face-down to a face-up position in not more than:
- A** 5 sec
- 
- YOSR** What is one of the methods used by an aircraft to attract a vessels attention for participation in a rescue operation?
- A** Circle the vessel.
- 
- YOUP** Which of the following features is required for an anti-exposure suit ?
- A** is marked that it must be worn in conjunction with warm clothing if it is made of material which has no inherent insulation
- 
- YOWU** Under ISM, what is a "non-conformity"?
- A** An observed situation where objective evidence indicates the non-fulfilment of a specified requirement
- 
- YOYO** A message is sent to a fax-machine. However the message cannot be delivered by the land earth station. The land earth station will:
- A** automatically send a non-delivery notification (NDN) to the sender
- 
- YPAH** A lifejacket should be provided with:
- A** A whistle and a light
- 
- YPCU** What is the best place to store the international shore connection?
- A** At a place easily accessible from the shore
- 
- YPCX** Prior to commence loading, in what way would you best ensure a smooth technical operation?
- A** All the mentioned alternatives?
- 
- YPPE** On area A4 the function " Transmission and reception of on scene communications" is mainly based on:
- A** the use of MF and/or VHF R/T
- 
- YPSO** \*Which among the following list is particularly required for a totally enclosed lifeboat ?
- A** automatic self-righting abilities when every persons are held in their place



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YPYM

Which of these are indications that a parcel is suspicious?

- A** The parcel is addressed to no one in particular, arrives unexpectedly and seems heavy for its size."

YQFW

A delta connected 3-phase A.C. induction motor is running normally at its rated current of 150 A when a single phasing fault (open circuit) occurs in one line. The likely outcome will be:

- A** Line currents: 0 A, 180 A, 180 A. Trip condition: trip on overload.

YQGU

Are mooring boats required for vessels transiting the Suez Canal?

- A** Ships can use their own boats if they cannot safely lift hired boats, but boat crews must be hired from shore

YQGV

The figures show a graphical symbol for a particular electronic component and a typical working characteristic for the same component. Which component?

- A** Silicon controlled rectifier (SCR)

YQHS

When it is midsummer in northern Europe, what time of the year is it in South Africa?

- A** Midwinter

YQIL

Why is it important not to machine-dry linen completely?

- A** To prevent too much shrinkage.

YQIM

In which compartments are halogenated hydrocarbons not allowed as fire-extinguishing media? (SOLAS II-2/5.3.1)

- A** General cargo holds

YQOD

The display of the DSC-controller on board is showing the following lines: (see original) This DSC-message is:

- A** neither for ...

YQPA

When would an Intermediate survey be carried out on a certificate which has a 5 year validity?

- A** 30 months before the expiry date- +/- 6 months

YQPX

What is flashpoint of an oil or liquefied gas?

- A** The flash point for an oil or liquefied gas is the temperature at which it is possible to ignite the vapour above the liquid

YQTK

What is the first thing you are doing when having a lifeboat drill?

- A** Put on the life jacket





**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YRFW

Your vessel is alongside and it's not possible to use the accommodation ladder or any gangway is available from shore, where will you endeavour to rig your portable gangway according to CDI ?

**A** Aft of the manifold.

YRFX

Which of the following foods contains the most fibre?

**A** Vegetables

YRRM

Apart from red, what other colour is frequently used for a dry powder extinguisher?

**A** Blue

YRRO

You are going to enter a tank to lift out some sediments. What kind of permits need to be issued before entering?

**A** Enclosed Space Entry Permit and Cold Work Permit.

YSGL

What should not be found on the muster list ?

**A** the name of each inoccupants (passengers included, if any)

YSJC

Which class of emission is used for HF radio telephony transmissions ?

**A** J3E

YSSE

Quick closing devices operable from upper deck outside the engine room, are provided for all fuel valves connected to the fuel tanks in the engine room. The function of the quick closing devices are checked being in functioning condition during Safety Equipment survey. Would it be advisable to have these

**A** Yes, the quick closing devices shall be tested and maintained frequently to ensure proper function in case of fire in the engine room.

YSTY

To get the best possible efficiency from evaporators, the superheat should be regulated to:

**A** 5 - 10 Degr. C.

YSUB

What could be the probable cause of chain vibration?

**A** Any of the below.

YSUB

What could be the probable cause of chain vibration?

**A** Any of the below.

YSUD

For a 4-stroke diesel engine, the exhaust gas from the funnel is seen to be white/light grey in colour. Which of the options given is the most likely cause of this.

**A** Water leaking into the combustion chamber.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YSUS

Give the meaning of the following symbol

**A** EPIRB

YSVQ

\*How much water per person is provided in a liferaft not equipped with a desalting apparatus?

**A** 1.5 litre

YSYB

How do we recognize a leaking fuel injector during testing?

**A** If a sudden drop in pressure appears after the valve is supposed to be closed, this is caused by a leak

YSYG

MF/HF 2187,5 Khz ALL SHIP DISTRESS 227852000 FIRE N 50 00 W 000 10 11:10 ACK RQ What is false regarding the above call ?

**A** This call is an all station call

YTKY

Which one of the listed requirements regarding service and maintenance of life-saving appliances correspond to present regulations?

**A** At least one member of the crew shall hold a repairman certificate for life-saving equipment

YTKY

Which one of the listed requirements regarding service and maintenance of life-saving appliances do not correspond to present regulations?

**A** At least one member of the crew shall hold a repairman certificate for life-saving equipment

YTQK

Which item among those below is included in the normal equipment of every lifeboat ?

**A** three tin-openers

YTQQ

What should be avoided when using ship`s tanks as slop tanks ?

**A** Mixing of : Incompatible cargoes, Annex 1 and Annex II cargoes and veg oils with chemical slop.

YTSF

What is the advantages of a GPS-satellite system compared to other navigational aids?

**A** The GPS system gives information about position, speed and time continuously world wide.

YTTD

In the figure, which letter gives the correct understanding of the term "LENGTH OVERALL"?

**A** Length overall is given by B on the figure

YTYs

Welding and burning are among the factors which give the highest risk of fire on board ships. Precaution has to be taken to avoid this risk. Which of the following safety rules may be regarded as the most important?

**A** The welder shall have been instructed in the use of the ship's welding plant.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YUKR

Due to exposure to heat fatigue, heat stroke and dehydration, what is the maximum recommended effective temperature (ET) for full work load in enclosed spaces?

**A** 30.5°C ET?

YUNF

What will you do if you have a flash-back during gas welding?

**A** Close the regulator valves immediately, oxygen first.

YUNF

What will you do if you have a flash-back during gas welding?

**A** Close the valves, oxygen first.

YUNY

How much fat does full cream long life milk contain?

**A** 3,5 - 3,9%

YUOW

On the figure 4 possible definitions of the term "ROLLER FAIRLEAD" are given. Which one is the correct one?

**A** Roller fairlead is given by B on the figure

YUTT

An area A3 is:

**A** an area excluding sea areas A1 and A2 within the radiotelephone coverage of at least one Inmarsat geostationary satellite in which continuous alerting is available

YUVL

On area A1 the function " Reception of shore to ship distress alerts" is mainly based on:

**A** the use of VHF DSC

YUVN

What are the additional duties required by the Officer of the Watch when navigating in fog?

**A** To be briefed about what to expect and when ships and lights should be detected

YUYX

For how long is the health certificate valid for a seafarer in foreign trade?

**A** One year.

YVFL

One of the following arguments is not valid regarding discharge of oil/oily mix into sea:

**A** The lower speed the higher ratio of oil/oily water can be discharged?

YVGK

How do we define the location of the "pivot point"?

**A** The point where the sideways motion of the ship's centreline is zero



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YVGL

An invalidated vessels certificate shall be:

- A** Returned to the Ship Control via a Norwegian Consulate

YVJT

At what pressures are P/V valves usually set to open in relation to atmospheric pressure?

- A** 2 PSI above / 0,5 PSI below?

YVJW

What is an A/D and a D/A converter?

- A** A converter that converts an analogue signal to a digital signal and vice versa

YVNV

Which of the following fittings shall be provided to all lifeboats:

- A** one drain valve fitted near the lowest point in the hull, except for free-fall lifeboats

YVQI

Who assist the Norwegian Maritime Directorate in the public control of seaworthiness of ships?

- A** Maritime investigators, The ship Control, the Electrical Inspectorate, and other public institutions, Det Norske Veritas and other approved survey institutions, other private institutions of foreign countries, the authorities of foreign countries

YVTS

What is an oxygen analyzer used for?

- A** Measure oxygen contents in the atmosphere.

YVXD

Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

- A** Check that the painter is made fast to a secure point and that the sea below is clear

YWBF

Ships registered in the Norwegian International Ship Register are subject to public control in accordance with:

- A** The Seaworthiness Act

YWEO

After discharging a Cat "D" Chemical inside "Special Areas" and performed stripping according to P&A manual, the tank washing water may be discharged as follows :

- A** Dilute the remains by 10 times with water, then overboard if the vessel is more than 12 miles off land and proceeding at a speed of 7 knots or more. The discharge need not take place below the waterline.

YWEP

\*Which of the following appliances are compulsorily in any ro-ro cargo space intended for the carriage of motor vehicles with fuel in their tanks for their own propulsion?

- A** At least one portable foam applicator unit

YWFH

What will occur within the cargo tank if Crude Oil Washing is undertaken with oil containing a substantial amount of water?

- A** Electrostatic hazards?



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YWIY

What is SOPEP?

- A** A Shipboard Oil Pollution Emergency Plan

YWMB

The PTT-switch must be:

- A** pressed in during transmitting only to work simplex

YWNV

By propagation in radio-traffic is understood:

- A** the way radio waves are propagated

YXCS

A person wearing an adult lifejacket shall be able:

- A** to swim a short distance through the water and board a survival craft

YXDO

On area A1 the function "Transmission and reception of on scene communications" is mainly based on:

- A** the use of VHF R/T

YXEN

What is the usual range of a VHF equipment ?

- A** 30 miles

YXVD

During a mooring operation whilst underway it is recommended that, with one ship maintaining a constant course and speed, the other manoeuvres so that:

- A** The manoeuvring vessel presents her port side to the constant direction vessel

YXWV

\*The number and positions of hydrants shall be such that:

- A** At least two jets of water not emanating from the same hydrant, one of which from a single length of hose, may reach any part of the ship normally accessible to passengers and crew

YXWW

When acting as helmsman would you expect the reading of the gyro compass to be the same as the magnetic compass?

- A** He is steering the ship.

YXYL

Where do you think the "pivot point" is located when your ship is going full speed ahead? No wind, current.

- A** At about 1/6 of the ship's length from the bow

YYBW

Hands in frequent contact with cleaning solutions often turns dry, chapped and itching. What should you do to prevent this?

- A** By using rubber gloves.



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YYFY

What are the main priorities of the leader of the fire fighting teams?

- A** Rescuing of life, fighting the fire, limitation of the fire and secure the retreat

YYMW

Two reference points for pressure exist, absolute zero and atmospheric pressure. What are pressures measured relative to absolute zero called?

- A** Absolute pressure

YYMW

Two reference points for pressure exist, absolute zero and atmospheric pressure. What do we call pressures measured relative to absolute zero?

- A** Absolute pressure

YYMW

Two reference points for pressure exist, absolute zero and atmospheric pressure. What do you call pressures measured relative to absolute zero?

- A** Absolute pressure

YYNQ

For ideal synchronising as the incomer circuit breaker contacts make, the phase angle difference between the incomer e.m.f. and the busbar voltage should be:

- A** 0°

YYNS

In ships carrying very hot cargoes above 140 degrees Celsius - which might cause local steel buckling - such as molten sulfur and asphalt, it is noticed that while sulfur is carried in independent tanks, the asphalt can be carried in tanks integral with the ships hull. This is because:

- A** The asphalt unlike sulfur is a viscous product and does not transmit its heat easily to the steel bulkheads, allowing the steel to stay cooler than the cargo

YYPD

How many Radar Transponders (SART) are required to be carried onboard a ship for use in survival crafts?

- A** One on each side of the ship

YYRO

During reassembly of a plate type heat exchanger following cleaning, the plate stack is normally compressed to a recommended thickness when tightening the tie bolts. Why is this recommended thickness given

- A** To prevent serious damages to the plates.

YYRO

During reassembly of a plate type heat exchanger following cleaning, the plate stack is normally compressed to a recommended thickness when tightening the tie bolts. Why is this recommended thickness given?

- A** To prevent serious damages to the plates.

YYRT

An abandon ship drill must take place 24 hours after the ship leaving a port with new crew members

- A** if they are more than 25% of the total crew

YYSM

Which of the following fluids has the highest density?

- A** Sea water



**CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)**

YYSQ

If something is broken or missing, what should the First Mate do?

**A** He is to notify the Chief Officer

YYXR

The ship is at anchorage. What is important to rise forward in daylight?

**A** Anchor ball.

zxsd

Pure Nitrogen is sometimes used to blanket sensitive cargoes because:

**A** All the mentioned alternatives