



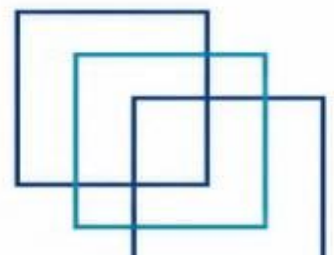
MEO CLASS 4 WRITTEN: SSEP

(SHIP SAFETY & ENVIRONMENTAL PROTECTION)

FOR INDIAN COMPETENCY EXAM

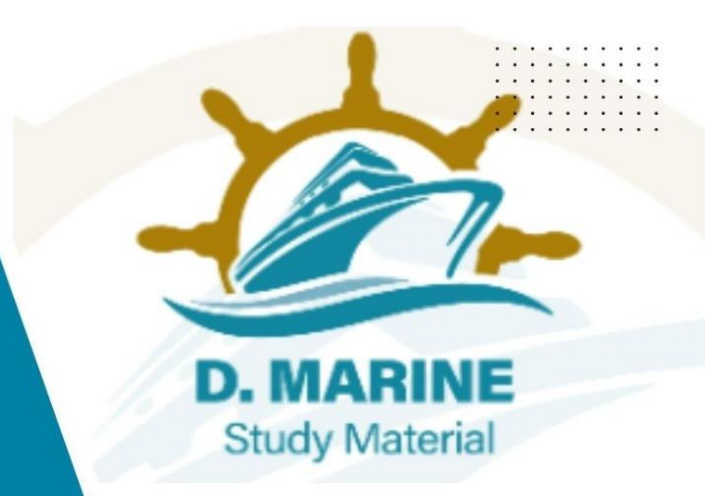


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MAY - 2023(PART-1)

- Q1. i) What is the definition of garbage on ships and what all types of garbage are there onboard (8)
ii) Which Annex of MARPOL is concerned with the prevention of pollution from garbage Name any certificate or record associated with this annex of MARPOL needs to be carried on ship (6)
iii) Name the special areas under the MARPOL Annex related to Garbage (6)

2023/MAY1/Q1

[Click Here to See the Answer](#)

Q2. Describe the periodic checks which should be made on a fixed CO2 fire extinguishing system installed on a ship and reasons for the same (20)

2023/MAY1/Q2

[Click Here to See the Answer](#)

Q3. State the difference between flag State control and port State control PSC Under which international Conventions Port State control can be exercised What do you understand by Memorandum of understanding in respect of PSC (20)

2023/MAY1/Q3

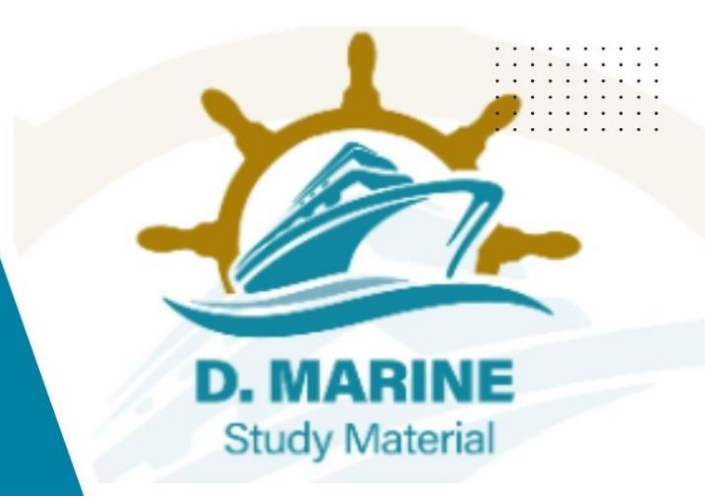
[Click Here to See the Answer](#)

Q4. The taking of bunkers is an important aspect of a Engineer's responsibility (20)

- (a) State the safety precautions that should be observed when bunkering
- (b) Explain the importance of taking samples when bunkering
- (c) Explain a preferred method of taking samples
- (d) State the effect of EACH of the following in a fuel oil
 - i) High density
 - ii) High pour point



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iii) High water content

2023/MAY1/Q4

[Click Here to See the Answer](#)

Q5. i) What do you understand by NO_x and SO_x emissions (5)

ii) Name the source from where they originate and how (5)

iii) Briefly discuss as to how these emissions are dealt with (10)

2023/MAY1/Q5

[Click Here to See the Answer](#)

Q6. i) Name the different causes of fire originating in machinery space What is auto ignition and explain how it occurs (5)

ii) Name some of the methods for detecting fire (5)

iii) Name some of the methods for containment of fire (5)

iv) What are the methods available for extinguishing fire (5)

2023/MAY1/Q6

[Click Here to See the Answer](#)

Q7. With respect to gravity lifeboat davits describe and state the purpose of

i) Centrifugal brakes (5)

ii) Deadman's handle (5)

iii) Limit switches on davits (5)

iv) Onload release gear (5)

2023/MAY1/Q7

[Click Here to See the Answer](#)

Q8. Give in detail the verification process a Port State Control Officer may carry out with respect to the following

i) Emergency generator (5)

ii) Auxiliary steering gear (5)

iii) Lifeboat engine (5)

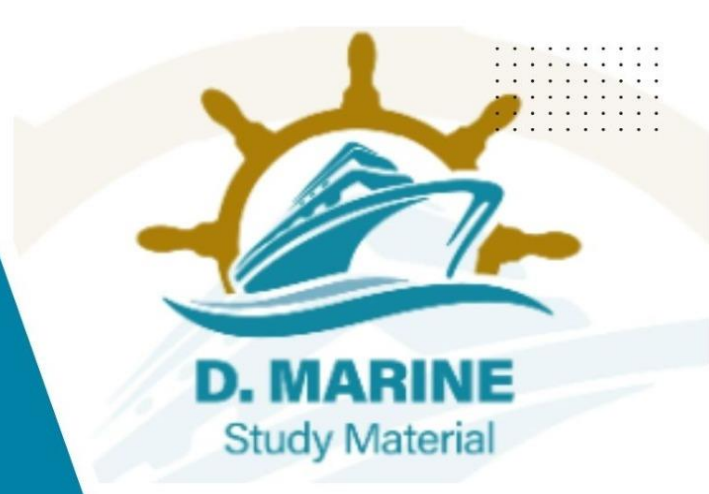
iv) Bilge pump (5)

2023/MAY1/Q8

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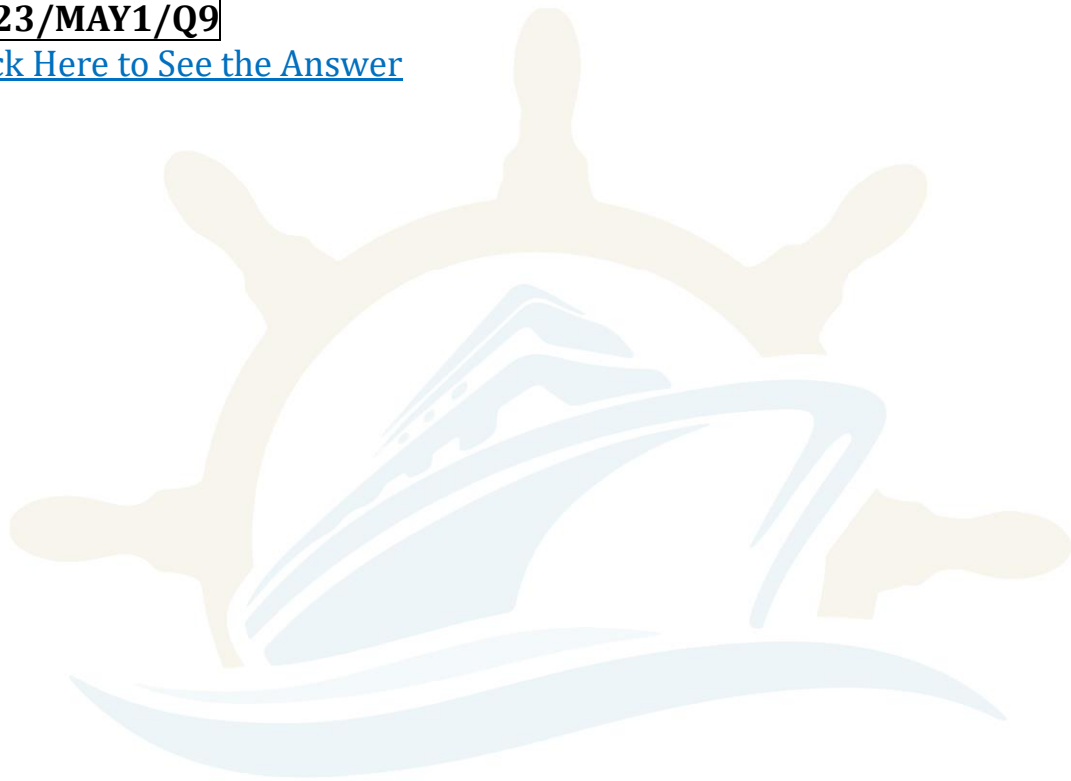
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- Q9. i) Explain the term communication skills and explain as to why it is important (10)
- ii) What are the different types of communication skills practised on ships Name and explain their usefulness (6)
- iii) What is feedback and explain as to why it is one of critical communication skills (4)

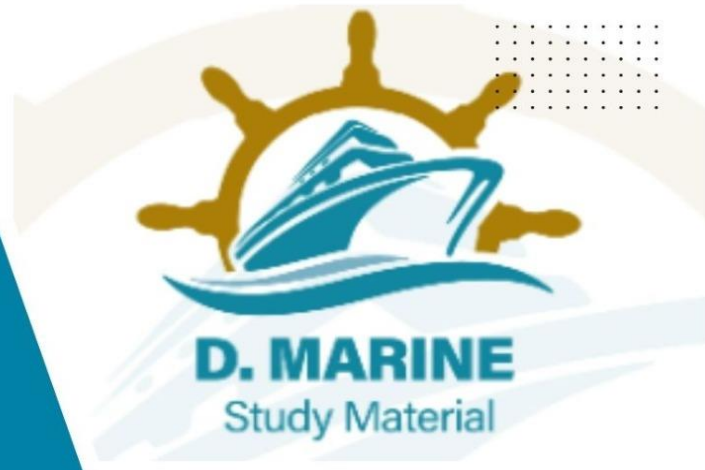
2023/MAY1/Q9

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MAY - 2023(PART-2)

Q1. (a) Describe with a sketch the Dry Powder Extinguisher its working principle and the types of inspections to be carried out and its periodicity (10)

(b) Suggest why in certain instances carbon dioxide and dry powder can be more of hazard than help in untutored hands (5)

(c) Suggest why dry powder is more effective than carbon dioxide for switchboard fires (5)

2023/MAY2/Q1

[Click Here to See the Answer](#)

Q2. With respect to fire protection fire detection and fire extinction (a) Describe for a ship that carries dangerous cargo the bridge-based detection arrangement (10)

(b) State how fires are dealt with bearing in mind that dangerous cargo quality varies (10)

2023/MAY2/Q2

[Click Here to See the Answer](#)

Q3. (a) Describe with the aid of a sketch the release arrangement for a machinery space fixed firefighting installation using CO₂ system State in your answer any special need for rapid delivery of the gas and the time permitted for discharge (10)

(b) Explain why and how evacuation of the machinery space is considered necessary before releasing CO₂ (10)

2023/MAY2/Q3

[Click Here to See the Answer](#)

Q4. Write short notes on following

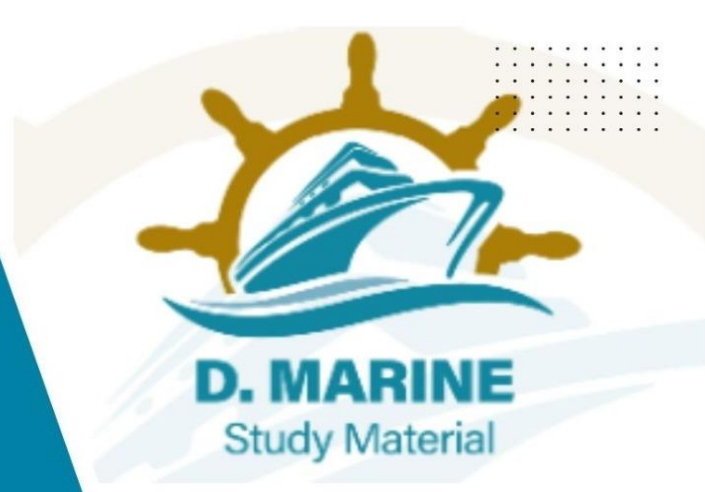
(i) SART (5)

(ii) EPIRB (5)

(iii) Portable VHF (5)



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(iv) Line throwing apparatus (5)

2023/MAY2/Q4

[Click Here to See the Answer](#)

Q5. Hot work is planned in the bottom platform of the engine room As a watch keeping engineer how will you ensure that the job is carried out safely (20)

2023/MAY2/Q5

[Click Here to See the Answer](#)

Q6. Describe an emergency source of electrical power using a diesel engine driven alternator with particular attention to

(a) Location (5)

(b) Starting arrangement (5)

(c) The loads they can supply and duration (5)

(d) The care and tests required to ensure reliable operation (5)

2023/MAY2/Q6

[Click Here to See the Answer](#)

Q7. With reference to MARPOL 73/78

(a) Explain the purpose of an oil record book (2)

(b) What is the regulation concerning above requirement (2)

(c) What all is recorded in oil record book part 1 (2)

(d) What is SOPEP (2)

(e) What are the contents of a SOPEP locker (4)

(f) Prepare a pre bunkering checklist (4)

(g) Precautions to be taken during bunkering (4)

2023/MAY2/Q7

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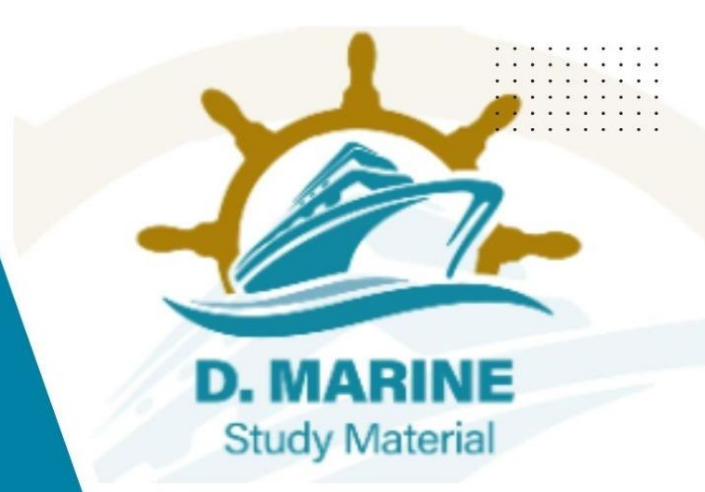
Q8. With reference to the ISPS Code state the following

(a) Duties of ship's security officer (8)

(b) Shipping company's responsibilities (6)



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(c) Certificate issued as per the code and its validity (6)

2023/MAY2/Q8

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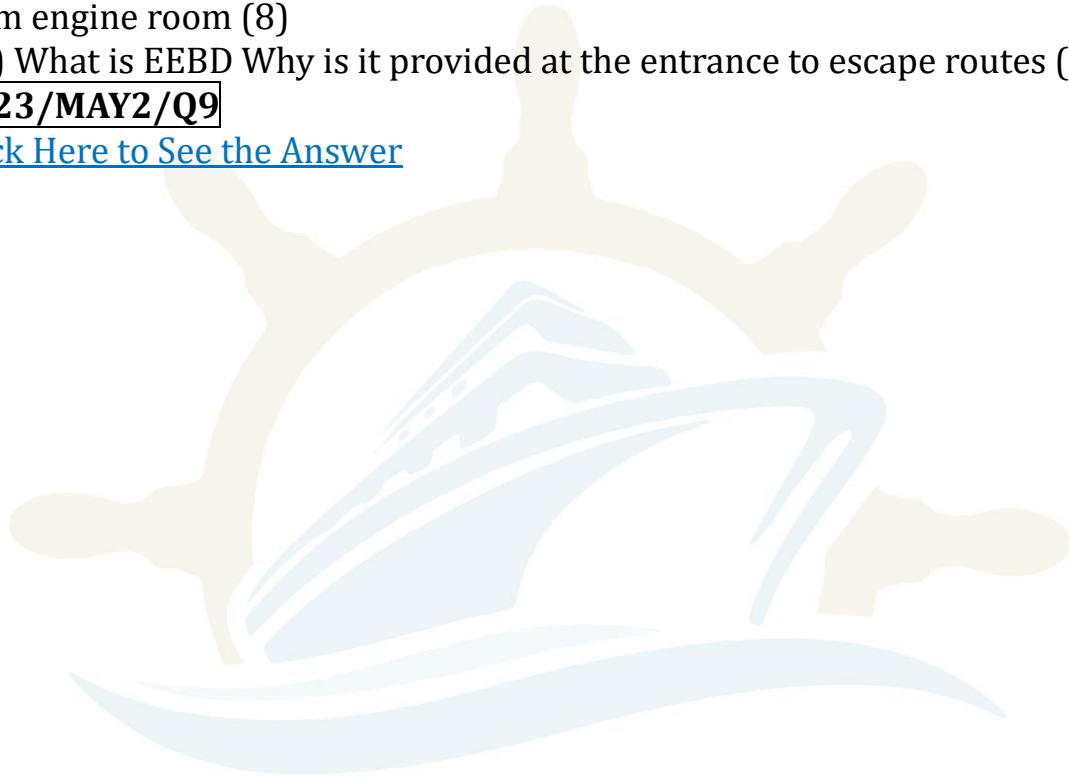
Q9. (i) Explain the purpose of emergency escape from ship's engine room
How many escape routes are required (8)

(ii) What are the requirements under SOLAS for emergency escape routes
from engine room (8)

(iii) What is EEBD Why is it provided at the entrance to escape routes (6)

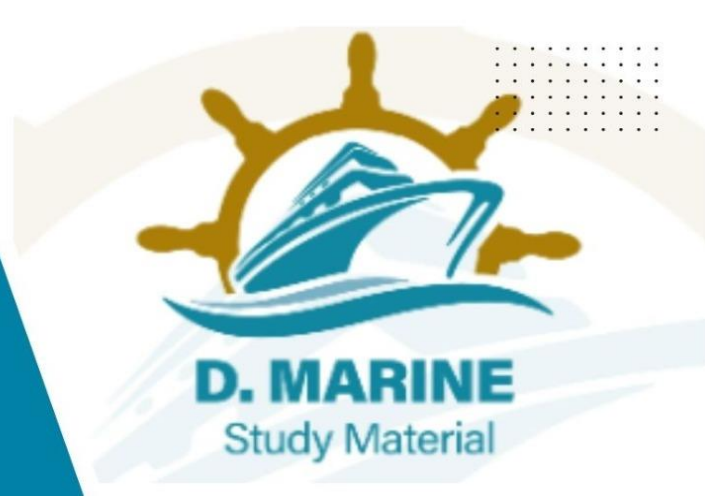
2023/MAY2/Q9

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JUNE - 2023

- Q1. i) Why is it necessary to treat ballast water prior to its discharge (10)
ii) Explain the difference between ballast water exchange and ballast water treatment Name the standards used in each case (10)

2023/JUN/Q1

[Click Here to See the Answer](#)

- Q2. i) What are the different types of garbage that are generated on board as per MARPOL Annex V and what are the provisions for dealing with them
ii) State the requirements for maintaining Garbage Management Plan and Garbage Record Book Name the entries to be made in garbage record book
iii) What are the indications that a ship is following the provisions of MARPOL Annex V during inspection (4)

2023/JUN/Q2

[Click Here to See the Answer](#)

- Q3. i) What is an IOPP Certificate state its normal period of validity and list out its content (6)
ii) What is SOPEP What are contents of this plan (7)
iii) What equipments are required to be carried under SOPEP (7)

2023/JUN/Q3

[Click Here to See the Answer](#)

- Q4. i) What do you understand by NO_x and SO_x emissions (6)
ii) Name the source from where they originate and how (6)
iii) Briefly discuss as to how these emissions are dealt with (8)

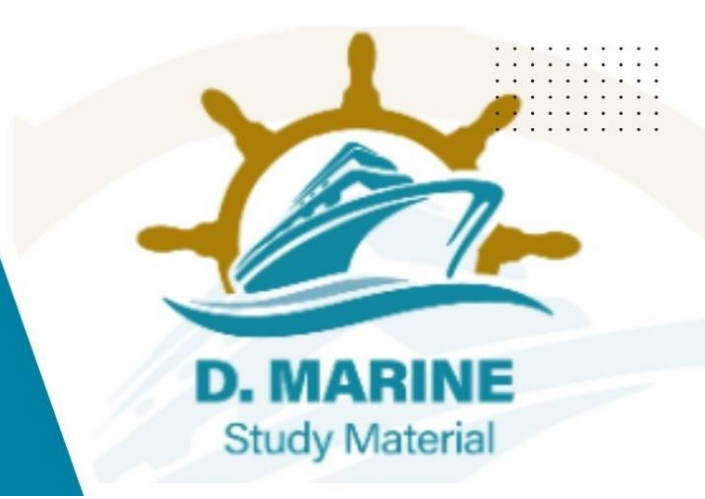
2023/MAY1/Q5 **2023/JUN/Q4**

[Click Here to See the Answer](#)

- Q5. Give in detail the verification process a Port State Control officer may carry out with respect to the following
i) Emergency generator (5)



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ii) Auxiliary steering gear (5)

iii) Lifeboat engine (5)

iv) Bilge pump (5)

2023/MAY1/Q8 **2023/JUN/Q5**

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Q6. i) Name the types of portable fire extinguishers used on board ships (5)

ii) State the use of the named type of extinguishers for extinguishing the concerned type of fire (5)

iii) Sketch and describe a mechanical foam type of extinguisher naming the components and material used to generate foam (10)

2023/JUN/Q6

[Click Here to See the Answer](#)

Q7. Write short notes on following

i) Fire hoses (5)

ii) Nozzles for firefighting (5)

iii) Fire hydrants (5)

iv) International shore coupling (5)

2023/JUN/Q7

[Click Here to See the Answer](#)

Q8. i) What are the classes of bulkheads used under structural fire protection of ships (5)

ii) Explain the areas as to where these are used and why (5)

iii) Name the tests carried out on these types of bulkheads (5)

iv) Describe in brief any test you are aware of (5)

2023/JUN/Q8

[Click Here to See the Answer](#)

Q9. With respect to gravity lifeboat davits describe and state the purpose of

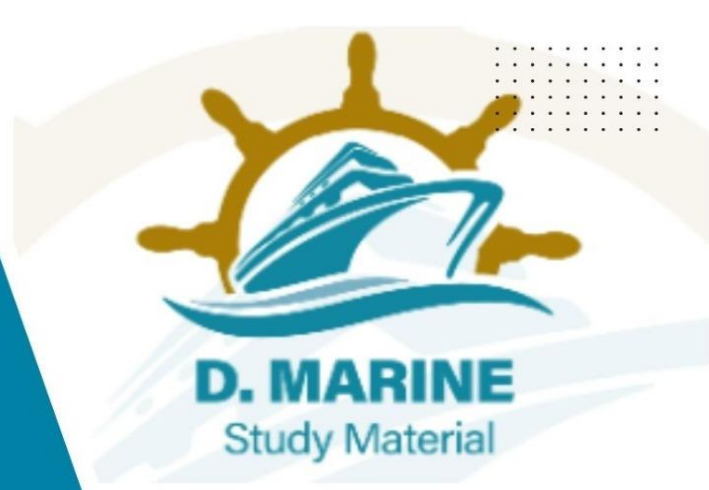
i) Centrifugal brakes (5)

ii) Deadman's handle (5)

iii) Limit switches on davits (5)



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iv) Onload release gear (5)

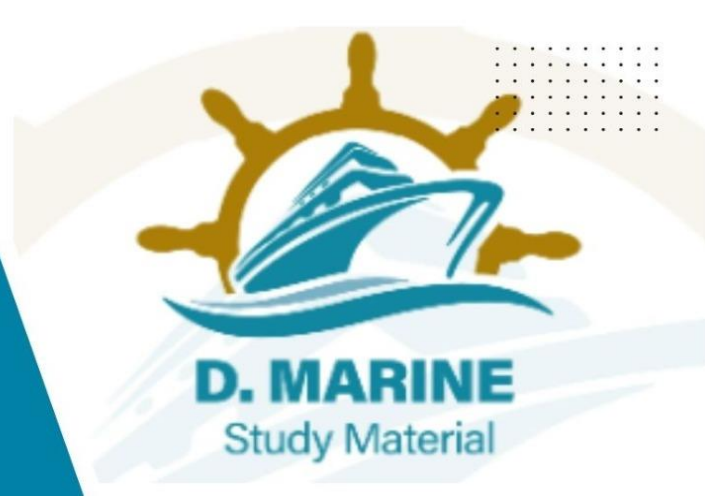
2023/MAY1/Q7 **2023/JUN/Q9**

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JULY - 2023

- Q1. i) How do ships contribute to marine pollution Name a few potential marine pollution sources (8)
ii) What is the impact of shipping operations on the environment (6)
iii) How can shipping pollution be reduced Name some of the measures which could help (6)

2023/JUL/Q1

[Click Here to See the Answer](#)

- Q2. i) Name the gases usually found inside enclosed space (6)
ii) What instruments are used in detecting checking the gases which are present (6)
iii) What is the minimum level of oxygen required for entry into enclosed space (2)
iv) With a simple diagram explain the working of oxygen content meter (6)

2023/JUL/Q2

[Click Here to See the Answer](#)

- Q3. i) Explain the purpose of hot work permit (5)
ii) State the different types of work permit used on ships and their utility
iii) Explain cold work permit What types of jobs require cold work permit
iv) Prepare a checklist for issuance of hot work permit (5)

2023/JUL/Q3

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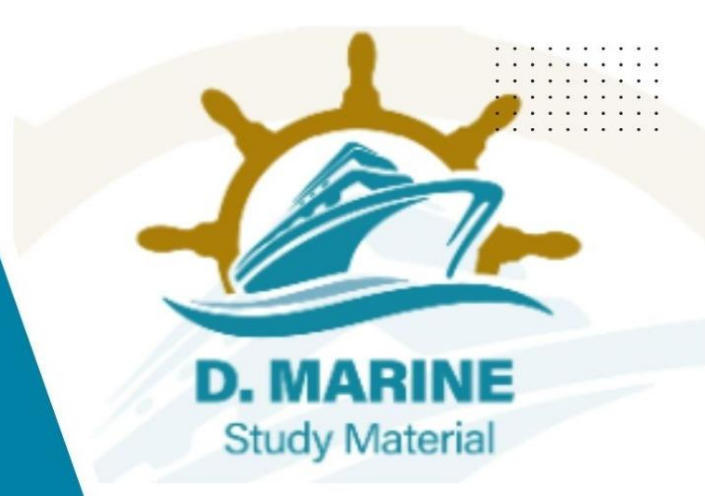
- Q4. i) Name the different classes of fire with examples Name the appropriate extinguishing agents in each case (10)
ii) Explain the term explosion (5)
iii) What is BLEVE expand same and explain its mechanism (5)

2023/JUL/Q4

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- Q5. i) What is a fire control plan FCP and what information does it provide
ii) State 5 graphic symbols shown in the plan and state the language in which the plan is drafted (5)
iii) Mention the locations at which the FCP is displayed (5)
iv) Where is the plan kept for the benefit of the shore firefighting team (5)

2023/JUL/Q5

[Click Here to See the Answer](#)

Q6. Write short notes on following concerning lifeboats

- i) Marking on lifeboats (5)
ii) Davit limit switches (5)
iii) Centrifugal brakes (5)
iv) Safeties provided on lifeboat davits (5)

2023/JUL/Q6

[Click Here to See the Answer](#)

- Q7. i) Explain the function of IMO as one of UN specialised agencies (6)
ii) Briefly explain the structure of IMO including the main committees (7)
iii) Explain the process of adopting a convention at IMO (7)

2023/JUL/Q7

[Click Here to See the Answer](#)

- Q8. i) Explain the purpose of Flag State Inspection FSI and why it is carried out (5)
ii) Name the list of items checked during FSI (5)
iii) What documents are issued after FSI (5)
iv) What is the frequency at which FSI is required to be carried out (5)

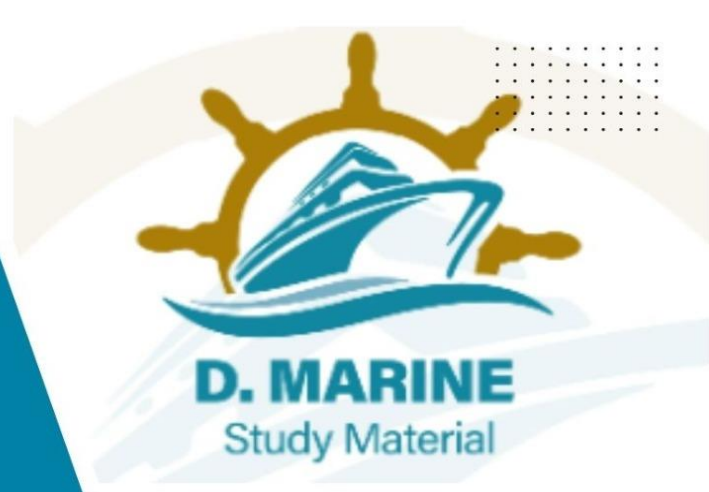
2023/JUL/Q8

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- Q9. i) Sketch and describe International Load line mark painted on both sides of the vessel including dimensions and distances for an oceangoing vessel (10)



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ii) What is Fresh water allowance Explain WNA line (10)

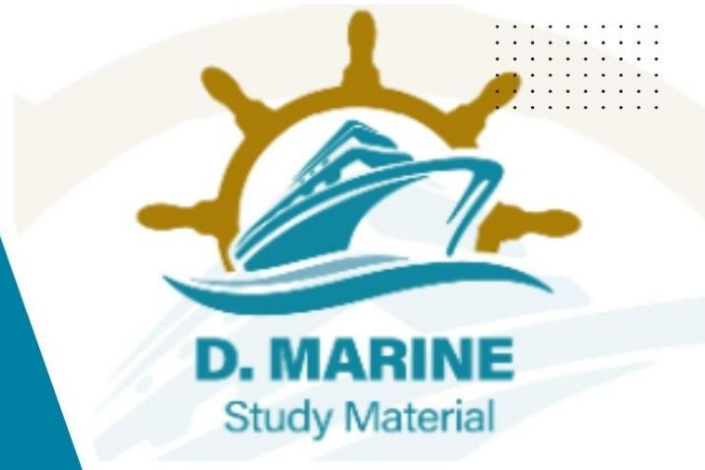
2023/JUL/Q9

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AUGUST - 2023

Q1. (a) Describe the routine testing required for self-contained breathing apparatus sets (10)

(b) Describe the procedure to be adopted to find missing personnel in a smoke filled accommodation area (10)

2023/AUG/Q1

[Click Here to See the Answer](#)

Q2. Describe an emergency electrical power generating plant for use in the event of a complete failure of the main electrical power and make reference to

(a) Location (4)

(b) Starting arrangements (4)

(c) Fuel oil and its supply (4)

(d) Cooling system (4)

(e) Periodic attention required (4)

2023/AUG/Q2

[Click Here to See the Answer](#)

Q3. (a) Where would you expect to find a Dry Powder Extinguisher (3)

(b) What safety equipment should there be at a bunker station (3)

(c) Why is an alarm sounded when CO₂ is released into the engine room (3)

(d) State the capabilities of a ship's main fire pump (3)

(e) What is regarded as an enclosed space (3)

(f) What is boundary cooling and the reasons for it (3)

(g) What all pumps in the engine room would supply the fire main (2)

2023/AUG/Q3

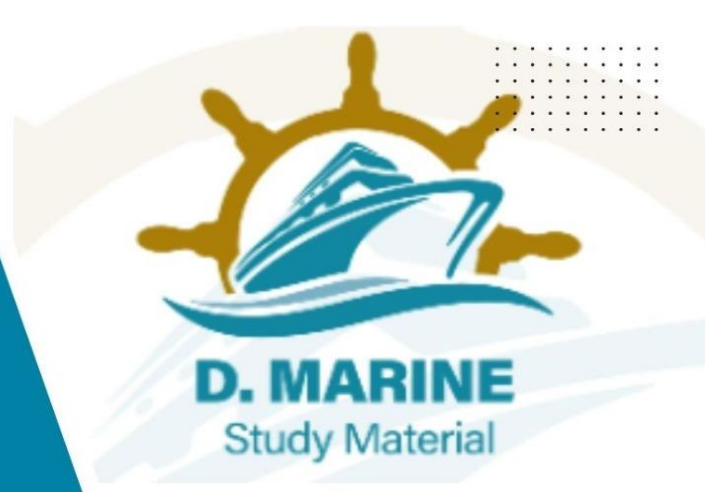
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Q4. (a) Sketch a simple line diagram showing a shipboard oil water separator in series with a coalescing second stage (10)

(b) Describe the arrangement and operation of the separator sketched in



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(a) (10)

2023/AUG/Q4

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Q5. With reference to bunkering on board vessel describe the following

(a) Initial preparation for H O and D O bunkering (7)

(b) Precautions for overflow during bunkering (7)

(c) Method of taking soundings during bunkering and operation of line valves (6)

2023/AUG/Q5

[Click Here to See the Answer](#)

Q6. Write short notes on

(a) Garbage Record Book (5)

(b) Annex VI of MARPOL 73/78 (5)

(c) SOPEP (5) (d) ODS Record Book (5)

2023/AUG/Q6

[Click Here to See the Answer](#)

Q7. With reference to Port State Control

(a) List the certificates which a Port State Control officer may like to see during inspection (8)

(b) What do you understand by the following (i) Clear grounds (ii) Detailed inspection of the ship (iii) Operational control (iv) Suspension of inspection

2023/AUG/Q7

[Click Here to See the Answer](#)

Q8. What do you understand by ISPS code What are the functions of the SSO CSO and PFSO (20)

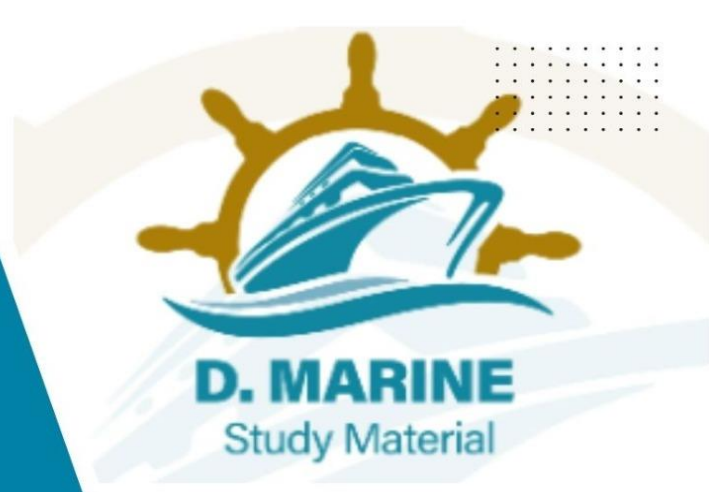
2023/AUG/Q8

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Q9. Briefly state requirement of the following certificates as per the IMO Conventions and what are their validity periods



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(a) DOC and SMC (8)

(b) SAFCON (6)

(c) IOPP (6)

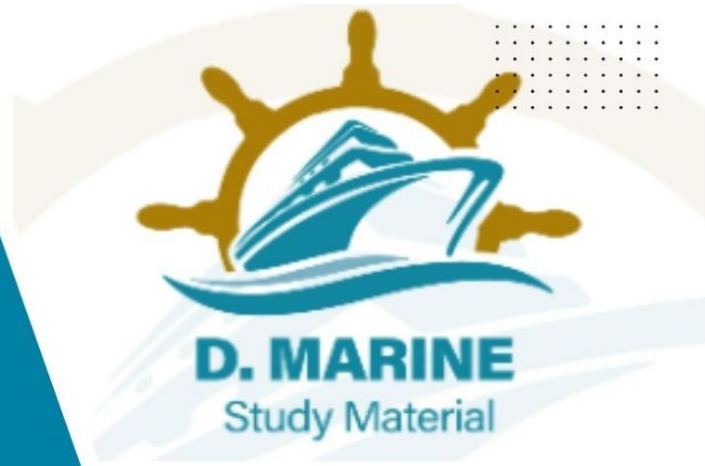
2023/AUG/Q9

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SEPTEMBER – 2023

Q1. i) Explain the purpose of hot work permit State the different types of work permit used on ships and their utility (10)

ii) Explain cold work permit What types of jobs require cold work permit

2023/SEP/Q1

[Click Here to See the Answer](#)

Q2. i) Name the different classes of fire with examples Name the appropriate extinguishing agents in each case (10)

ii) Explain the term explosion (5)

iii) What is BLEVE expand same and explain its mechanism (5)

2023/JUL/Q4 **2023/SEP/Q2**

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Q3. What is inert gas and what is its function what are the ways it is produced on ship What is the normal oxygen content in the IG produced from boiler flue gas What is pyrophoric reaction and how is it controlled by using inert gas (20)

2023/SEP/Q3

[Click Here to See the Answer](#)

Q4. What maintenance and checks are carried out on CO2 bottles

(a) Weekly

(b) Monthly

(c) Yearly

(d) 2 yearly basis and what schedule is followed for pressure testing of the bottles (20)

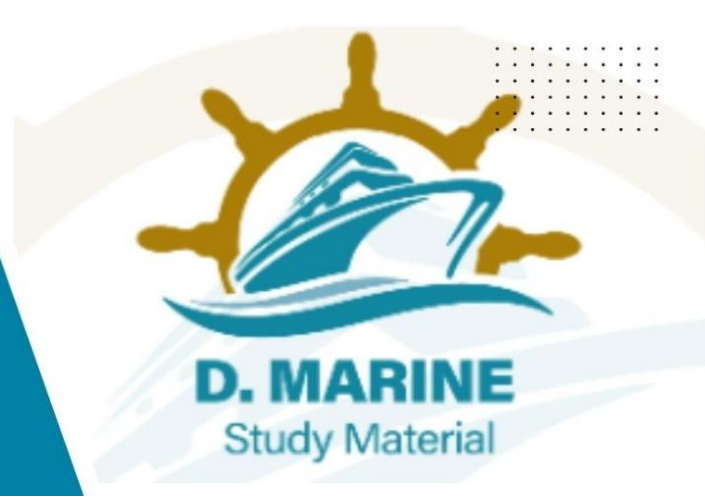
2023/SEP/Q4

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Q5. State the requirements for the ventilation arrangement of cargo pump room of an oil tanker What are the other safeties provided for pump room



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safety including fire protection (20)

2023/SEP/Q5

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Q6. i) What is Maritime Labour Convention 2006 and name its salient features (8)

ii) Name the titles in MLC 2006 (4)

iii) What is CBA and how does it work Explain (8)

2023/SEP/Q6

[Click Here to See the Answer](#)

Q7. i) Explain how you will prepare your vessel for a routine inspection by PSC at vessel's next port of call (10)

ii) State the precautions that you will consider so that the vessel is not considered for detention by the attending PSCO (10)

2023/SEP/Q7

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Q8. i) How Sox is formed on ships (8)

ii) What are the causes and effects of Sox emission (8)

iii) State the regulation governing limits of Sox generation (4)

2023/SEP/Q8

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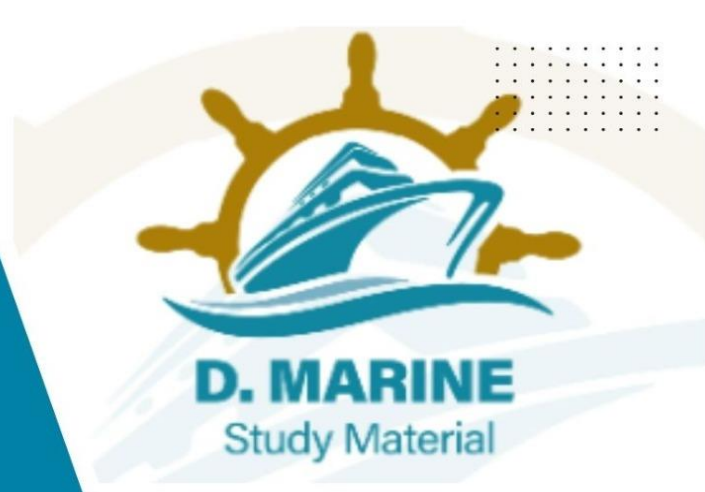
Q9. What is the purpose of ISM Code under SOLAS Chapter IX What are its objectives What certification is required under the ISM Code and name its issuing authority In how many parts is the code divided into (20)

2023/SEP/Q9

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OCTOBER - 2023

- Q1. i) How does sewage discharge from the ship affect the environment (5)
ii) Sketch and describe aerobic sewage treatment system (10)
iii) Name the special areas under MARPOL Annex IV What is Black water and grey water (5)

2023/OCT/Q1

- Q2.i) What is ozone depletion and what are its effects (5)
ii) Name the gases which have ozone depleting potential and how ODP is classified (5)
iii) What actions are now in place to control the usage or accidental release of such gases What recordkeeping is essential (10)

2023/OCT/Q2

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- Q3. i) What size and type of ship does MARPOL Annex I apply Name the statutory certificate issued under this annex (5)
ii) What is standard discharge connection also known as MARPOL flange and explain same with sketch and dimensions (10)
iii) Name the special areas under MARPOL Annex (5)

2023/OCT/Q3

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- Q4. With respect to reduction in CO₂ emissions briefly discuss the following
(a) EEDI (5)
(b) EEXI (5)
(c) SEEMP (5)
(d) CII (5)

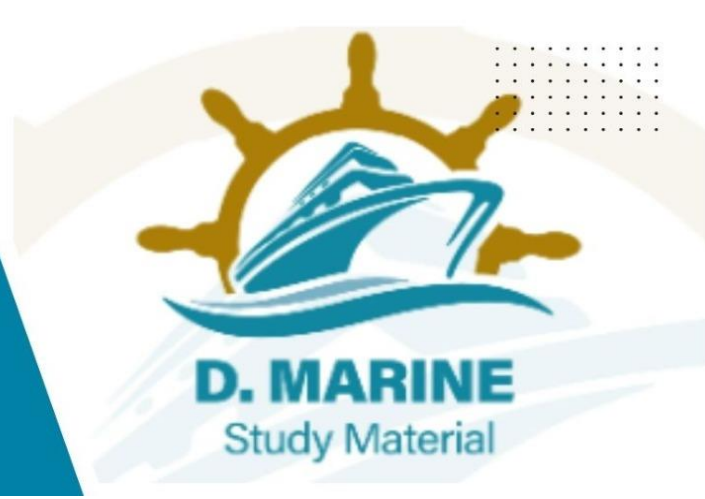
2023/OCT/Q4

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- Q5. i) Define enclosed space Give examples of enclosed space on ships (8)
ii) What is the procedure for enclosed space entry describe the same (8)



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iii) What type of permit is required for entry into enclosed spaces and how is it issued What is its validity (4)

2023/OCT/Q5

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Q6. With reference to the periodically unattended machinery space of a dry cargo vessel discuss the requirements for

(i) Protection against flooding (10)

(ii) Control of propulsion machinery from the navigating bridge (10)

2023/OCT/Q6

[Click Here to See the Answer](#)

Q7. (a) Sketch a simple line diagram showing a shipboard oil water separator in series with a coalescing second stage (10)

(b) Describe the arrangement and operation of the separator sketched in (a) (10)

2023/AUG/Q4 **2023/OCT/Q7**

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Q8. Describe CO₂ fixed firefighting system for machinery spaces and cargo spaces of a bulk carrier Explain safety precautions taken prior to release of CO₂ to the engine room (20)

2023/OCT/Q8

[Click Here to See the Answer](#)

Q9. (a) Define the following with regard to International Safety Management Code

(i) Major non conformity

(ii) Designated Person

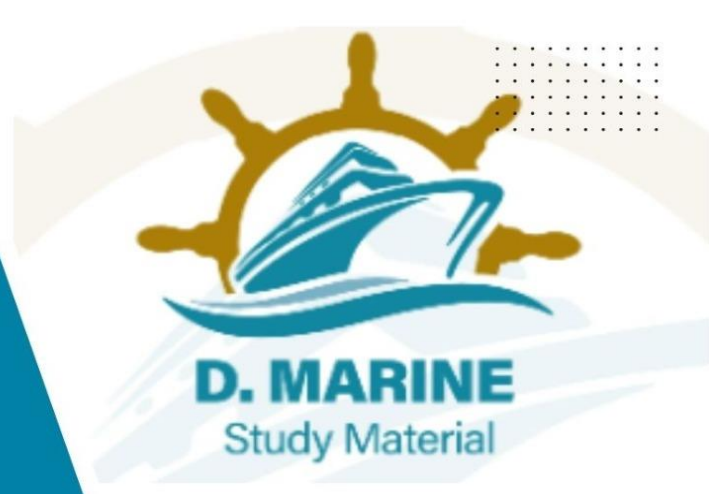
(iii) Potential emergency shipboard situations (10)

(b) Write short notes on the following with respect to ISPS Code

(i) Company Security Officer Ship Security Officer Port Facility Security Officer



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(ii) Levels of security (10)

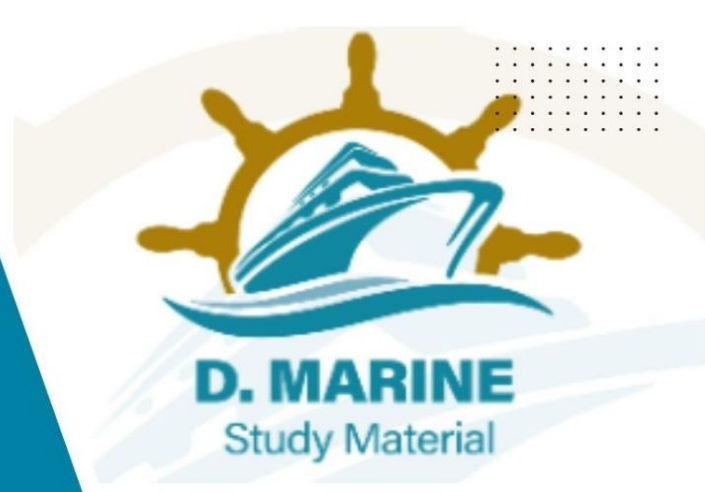
2023/OCT/Q9

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NOVEMBER - 2023

- Q1. i) How do ships contribute to marine pollution Name a few potential marine pollution sources (8)
ii) What is the impact of shipping operations on the environment (6)
iii) How can shipping pollution be reduced Name some of the measures which could help (6)

2023/JUL/Q1 **2023/NOV/Q1**

[Click Here to See the Answer](#)

- Q2. i) What is the definition of garbage on ships and what all types of garbage are there onboard (8)
ii) Which Annex of MARPOL is concerned with the prevention of pollution from garbage Name any certificate or record associated with this annex of MARPOL needs to be carried on ship (6)
iii) Name the special areas under the MARPOL Annex related to garbage (6)

2023/MAY1/Q1 **2023/NOV/Q2**

[Click Here to See the Answer](#)

- Q3. i) Explain the purpose of hot work permit (5)
ii) State the different types of work permit used on ships and their utility
iii) Explain cold work permit What types of jobs require cold work permit
iv) Prepare a checklist for issuance of hot work permit (5)

2023/JUL/Q3 **2023/NOV/Q3**

[Click Here to See the Answer](#)

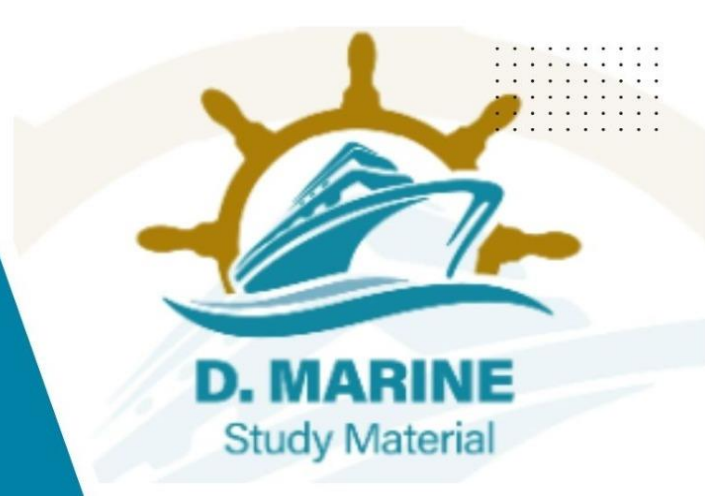
- Q4. i) State the means provided for cutting off air supply to contain or extinguish fire in engine room through ventilation ducts (4)
ii) Show an arrangement as to how remote shutting off of engine room fan dampers is possible (8)
iii) What are funnel dampers Why are they provided Explain mode of operation in engine room fire (8)

2023/NOV/Q4

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- Q5. i) Sketch and describe a sprinkler head and label its parts Explain its working principle (10)
ii) What liquid is inside the bulb and how does it rupture (5)
iii) Write as to how the temperature rating for the sprinkler head is determined (5)

2023/NOV/Q5

[Click Here to See the Answer](#)

Q6. State how safety is achieved with regard to gas emission in battery room where a large number of lead acid cells are stored with reference to following

- (i) Provision for lighting (5)
(ii) Ventilation if fan is fitted (5)
(iii) Type of distilled water container for topping up (5)
(iv) Use of tools and replacement of defective batteries (5)

2023/NOV/Q6

[Click Here to See the Answer](#)

Q7. i) What is GMDSS To what size of ships does it apply When did it come into operation and what had been the reasons for same (8)

- ii) Name the different elements of GMDSS (8)
iii) List the documents that are required to be carried on board under GMDSS (4)

2023/NOV/Q7

[Click Here to See the Answer](#)

Q8. i) List out six of the key IMO conventions in force till date stating their significance (10)

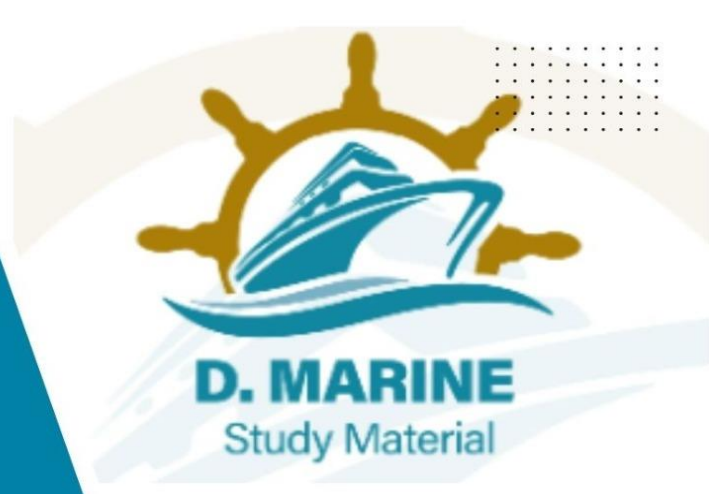
- ii) What is meant by the term enforcement Explain in simple terms (6)

2023/NOV/Q8

[Click Here to See the Answer](#)



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- Q9. i) Explain what is SEEMP Shipboard Energy Efficiency Management Plan (4)
ii) What is its purpose What is the basic structure of SEEMP (8)
iii) Name the ship specific measures and company specific measures in developing an effective SEEMP (8)

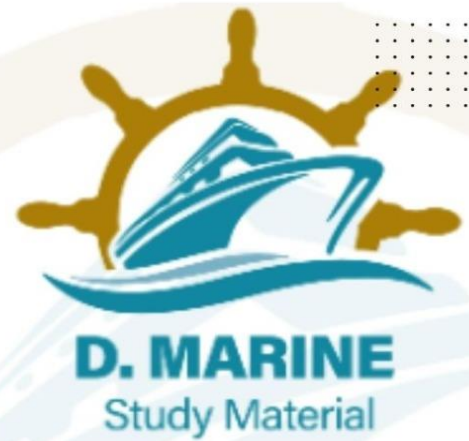
2023/NOV/Q9

[Click Here to See the Answer](#)





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DECEMBER – 2023

Q1. (a) What do you understand by the term EEXI Provide an overview and its implementation process (8)

(b) Discuss the improvement methods commonly considered in order to achieve energy efficiency optimization with respect to EEXI (12)

2023/DEC/Q1

[Click Here to See the Answer](#)

Q2. (a) How does the Selective Catalytic Reduction SCR system work (10)

(b) If Selective Catalytic Reduction SCR has such an extremely high NO_x reduction efficiency why is it so rare in marine applications (10)

2023/DEC/Q2

[Click Here to See the Answer](#)

Q3. (a) Define enclosed space Give examples of enclosed space on ships (8)

(b) What is the procedure for enclosed space entry describe the same (8)

(c) What type of permit is required for entry into enclosed spaces and how is it issued What is its validity (4)

2023/OCT/Q5 **2023/DEC/Q3**

[Click Here to See the Answer](#)

Q4. (a) Explain why bunkering is considered a hazardous operation What type of casualty can occur during bunkering Discuss the implications of such incidents if so happens (10)

(b) Name the bunkering procedure to be followed

(i) In preparation of receiving bunkers (4)

(ii) While receiving bunkers (3)

(iii) On completion of bunkering (3)

2023/DEC/Q4

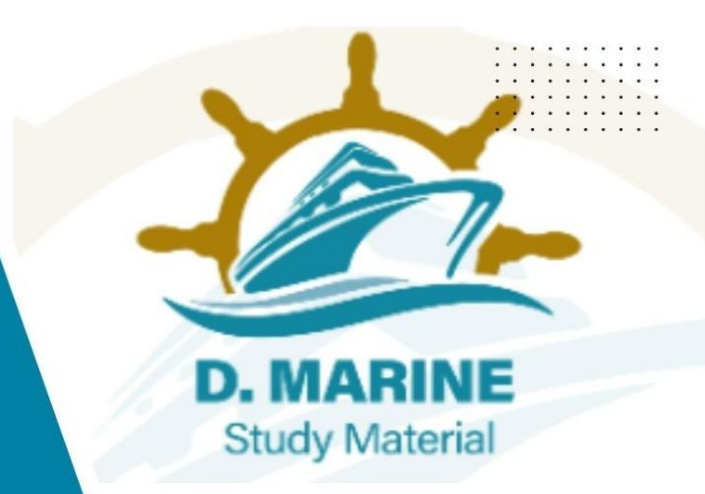
[Click Here to See the Answer](#)

Q5. (a) What are the sulphur limits for fuel in use under MARPOL (5)

(b) What happens if compliant fuel cannot be obtained in the port of



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bunkering (5)

(c) What if the sulphur analysis resulting from a commercial analysis does not match the bunker delivery note (5)

(d) What are the timelines for installation of in use fuel sampling points on ships Does it apply for existing ships (5)

2023/DEC/Q5

[Click Here to See the Answer](#)

Q6. Write short notes on the following

(a) EPIRB and SART

(b) Hydrostatic Release Unit HRU

(c) Pyrotechnics

(d) Muster list indicating essential elements (20)

2023/DEC/Q6

[Click Here to See the Answer](#)

Q7. (a) State the causes of scavenge fire in a two-stroke engine and explain how the possibility of such an occurrence can be reduced (10)

(b) If a scavenge fire does occur what action should be taken Discuss the use of CO₂ and dry powder for extinguishing such a fire and describe a fixed installation for applying one of these substances (10)

2023/DEC/Q7

[Click Here to See the Answer](#)

Q8. (a) What are the requirements of Emergency source of electrical power as per SOLAS Convention as amended in cargo ships (6)

(b) Name the services that are required to be supplied power from emergency source (6)

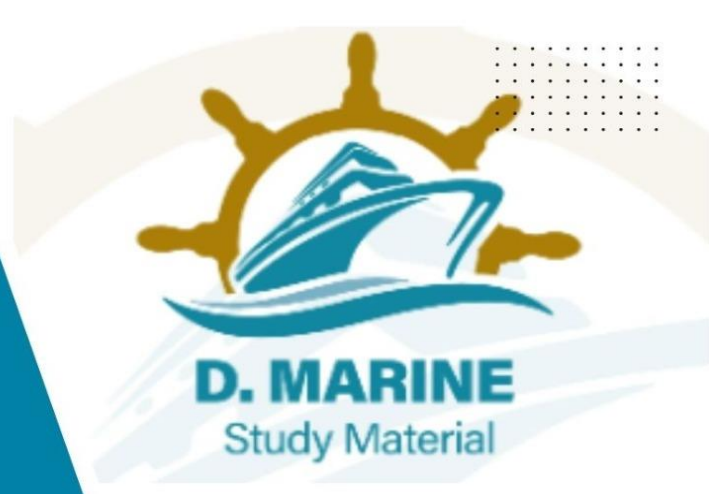
(c) What are the starting arrangements for emergency generating sets (8)

2023/DEC/Q8

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Q9. How would you test the preparedness of your ship in anticipation of a Port State Control PSC inspection before arrival port in the following areas

- (a) Paint store and galley
- (b) Fire control station and CO2 room
- (c) Steering gear including chemical locker
- (d) Lifeboat deck (20)

2023/DEC/Q9

[Click Here to See the Answer](#)

