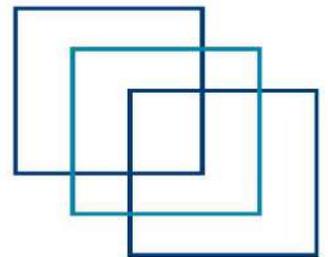


MEO CLASS 2

WRITTEN: SSEP

(SHIP SAFETY & ENVIROMENTAL PROTECTION)

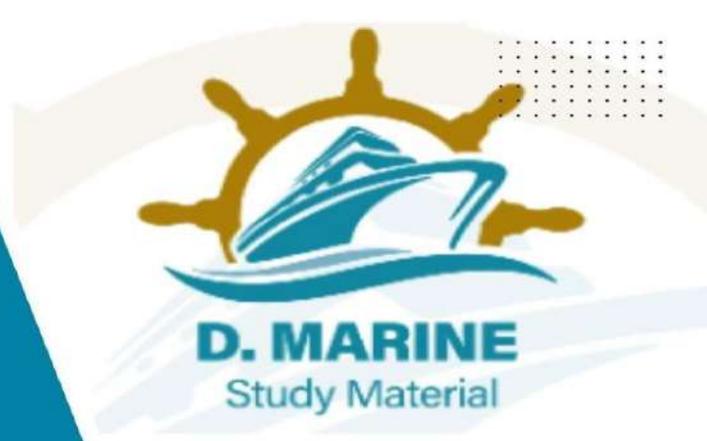
FOR INDIAN COMPETENCY EXAM



www.dmarinestudy.com



www.dmarinestudy.com



JAN- 2026

1. For an ISM certification, explain the key clauses, which are required to be complied with for obtaining Interim DOC. State the responsibility of a Second Engineer with respect to satisfactory implementation of SMS on board ship.

2026/JAN/Q1

[Click Here to See the Answer](#)

- 2.a) Sketch a line diagram of a mechanical low expansion foam fixed firefighting system suitable for machinery spaces.
- b) Describe the operation of the system sketched.
- c) Explain how a mixture of foam making compound and sea water are converted into foam.
- d) What are the periodic maintenance required on the system.

2021/MAR/04 **2023/JUN/02** **2026/JAN/02**

[Click Here to See the Answer](#)

3. India, one of the world's five major ship recycling countries, has acceded to the IMO Hong Kong Convention, the treaty that will set global standards for safe and environmentally sound ship recycling. Discuss the key features of "The Hong Kong International convention for the safe and environmentally sound Recycling of Ships".

2026/JAN/02

[Click Here to See the Answer](#)

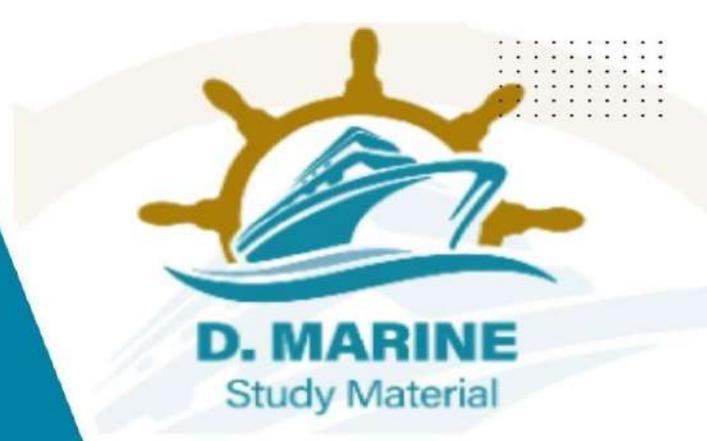
4. a) Sketch a simplified circuit that may be incorporated in a control panel for an array of fire detectors.
- b) Describe the following features that may be found in a control panel for fire detectors:
- i) Audible fire alarm circuits.
- ii) Identification of zone of fire
- iii) Automatic change over from normal power supply

2022/NOV/09 **2023/JUN/04** **2026/JAN/04**

[Click Here to See the Answer](#)



www.dmarinestudy.com



5. Prepare a proposal for safe manning requirements for a ship of your choice considering the IMO guidelines on the issue, also considering frequent port calls, rest hour management and high-risk areas. (20)

2023/AUG/02 **2023/DEC/08** **2024/FEB/04** **2025/APR/01**
2025/JUL/07 **2025/OCT/01** **2026/JAN/05**

[Click Here to See the Answer](#)

6. As a Second Engineer, list of risk you envisage in the process of opening and cleaning of a double bottom tank in Engine room. Give methodology used in detail for determining the risk for above process. Mention names of other methods which can be used to determine such risks.

2026/JAN/06

[Click Here to See the Answer](#)

7. Explain the following with reference to MARPOL Annex-VI

- a) Ozone depleting substances and its emissions control.
- b) Volatile Organic and its emissions control.
- c) NO_x emissions and its control from ships.

2023/JUN/07 **2026/JAN/07**

[Click Here to See the Answer](#)

8. With reference to regulation 12 SOLAS Chapter XII, dealing with Water Level Detection and Alarm System to spaces;

- a) Type of ships Water Level Detection and Alarm System is required to be installed. (5)
- b) Brief description of such installation.
- c) Requirements with respect to detection system
- d) Requirements with respect to alarm system.

2022/OCT/07 **2023/MAR/04** **2023/JUN/08** **2024/JUN/07**
2026/JAN/08

[Click Here to See the Answer](#)

9. With reference to Port State Control:

- a). State the various MOU's and the purpose of having a port state control regime.



www.dmarinestudy.com



- b) Give at least 3 examples of deficiency which may lead to detention of your vessel
- c) If your vessel gets detained by the PSCO owing to a deficiency, what would be your action for redressal. (4)
- d) What are the various deficiency action code used in PSC.
- e) Briefly explain the difference between PSC and FSI.

2026/JAN/09

[Click Here to See the Answer](#)

