



India  
(2023)

Sr. No. 27121

## EXAMINATION OF MARINE ENGINEER OFFICER

Grade: MEO Class IV

Function: Controlling the Operation of the Ship & Care for Persons on Board at Operational Level

Subject: MARINE ENGINEERING PRACTICE

(Time allowed :3 hours)

Total Marks: 100

Note:

- 1) Answer SIX Questions only.
- 2) All Questions carry equal marks
- 3) Neatness in handwriting and clarity in expression carries weightage
- 4) Illustration of an Answer with clear sketches/diagrams carries weightage.
- 5) Start answering from the backside of the front cover page.
- 6) Blank pages whether full or half, to be struck off by (X) at the end of each question.

- ✓ (a) Describe safety limits provided on deck cranes [6]  
(b) Describe regular maintenance required on deck cranes. [5]  
(c) Discuss in the Indian context, the inspection, testing and certification regime being followed for the lifting appliances on ships. [5]
- ✗ Describe following non destructive methods:  
(a) Radiographic Inspection - principle, method in detail. *in-Page* [8]  
(b) Ultrasonic Inspection - principle, method in detail. *in-Page* [8]
- ✓ With regard to keeping the gas side of boilers in good condition discuss EACH of the following:  
(a) The mechanism of combustion, stating the factors which are important for good combustion; [6]  
(b) Oil fuel treatments; [5]  
(c) Soot removal equipment. [5]
- ✓ During your watch you observe that Main Engine L.O. sump level is rising due to contamination of lubricating oil. Describe the procedure to-  
(a) identify the contaminant. [6]  
(b) locate the cause of contamination [6]  
(c) action to make the oil suitable for its continued usage. [4]
- ✓ To achieve the optimum performance from a main air compressor, describe the routine maintenance necessary on the following components; [16]  
(a) Unloader (b) Air intake filter  
(c) Suction/Discharge valves (d) Intercoolers

# Marine Engineer Class 2 Exam Questions

**Rachel Sandford**



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