

CBCS SCHEME

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18MR81

Eighth Semester B.E. Degree Examination, June/July 2024 Engine Room Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What measure to be taken for in case of flooding of engine room? Explain. (08 Marks)
- b. Explain the main aspects of engine room watch keeping in relation to sea watch, port watch and unsheltered anchorage watch. (12 Marks)

OR

- 2 a. Write the duties to be done in port watch keeping. (08 Marks)
- b. Draw the emergency bilge system of engine room of a large size ocean going vessel. (12 Marks)

Module-2

- 3 a. Explain the trouble shooting in air compressor. (10 Marks)
- b. Explain air condition system with a neat diagram and what are the trouble shoots occurring during watch. (10 Marks)

OR

- 4 a. Explain the De Carbonization of auxiliary engine. (10 Marks)
- b. List the repair work to be done in engine room while dry docking. (10 Marks)

Module-3

- 5 a. Define scavenge fire. Explain the indication, causes and actions to be taken during scavenge fire. (12 Marks)
- b. Explain the oil mist detector of a main engine. (08 Marks)

OR

- 6 a. Explain main engine air starting line explosion with reasons, effects and prevention. (12 Marks)
- b. Explain about early or advanced injection. (04 Marks)
- c. Write a note on turbocharger surging. (04 Marks)

Module-4

- 7 a. Explain the procedure for tie-rod tensioning. (08 Marks)
- b. What is the need to measure crankshaft deflection? Describe how crankshaft deflection are taken, how they are recorded and how it is ascertained that alignment is acceptable? (12 Marks)

OR

- 8 a. Explain the fault and defects in bearing. (10 Marks)
- b. Explain how to dismantle piston and piston assembly of main engine. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-5

- 9 a. List the safeties on Main Switch Board. (10 Marks)
b. Explain the maintenance carried in motor. (10 Marks)

OR

- 10 a. What is circuit breaker? Explain Air Circuit Breaker, Moulded Case Circuit Breaker (MCCB), Miniature Circuit Breaker (MCB). (10 Marks)
b. Explain Navigational lights of a vessel. (10 Marks)

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