

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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