

CBCS SCHEME

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18MR821

Eighth Semester B.E. Degree Examination, July/August 2022 **Marine Engine Practice**

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain pressure testing of Piston in detail. (10 Marks)
- b. Explain types of Piston rings, materials used and its maintenance in detail. (10 Marks)

OR

- 2 a. Explain linear removal procedure for MAN Engine [MC and ME engines] in detail. (10 Marks)
- b. Explain the ways to check the condition of the cylinder in detail. (10 Marks)

Module-2

- 3 Explain various that are performed during major overhauling of the ship's Generator. (20 Marks)

OR

- 4 Explain about cylinder liner calibration in detail. (20 Marks)

Module-3

- 5 Explain the following in detail with suitable diagrams.
 - i) Factors affecting the performance of purifier
 - ii) Selection of Gravity disc and use of Nomogram Table(20 Marks)

OR

- 6 a. What is meant by Bumping Clearance? How to check and adjust the bumping clearance in detail. (10 Marks)
- b. How will you carry out crankcase inspection of Air compressor? (10 Marks)

Module-4

- 7 Draw a neat sketch and explain Pilgrim nut method of propeller mounting in detail. (20 Marks)

OR

- 8 Explain with a neat sketch about aft stern tube lip seal Assembly in detail. (20 Marks)

Module-5

- 9 What are the requirements according to MARPOL for OWS? Explain construction and working of Simplex-turbulo oil/water separator in detail. (20 Marks)

OR

- 10 a. Draw a constructional diagram of a shipboard incinerator and label its parts. (10 Marks)
- b. Draw a constructional diagram of a STP and label and parts. (10 Marks)

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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.