

CBCS SCHEME

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18MR72

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 Advanced Marine Auxiliary Machines

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain about the maintenance of incinerator. (10 Marks)
b. Explain the working of marine sewage treatment with a neat sketch. (10 Marks)

OR

- 2 a. What is Marpol? Explain the Six Annex. (08 Marks)
b. Explain the working of oily water separator with a neat sketch. (12 Marks)

Module-2

- 3 a. With a neat sketch, explain the working of fuel oil purifier. (12 Marks)
b. Differentiate between Purifier and Clarifier. (08 Marks)

OR

- 4 a. Draw a neat sketch of mooring winch. (10 Marks)
b. Why multi-staging is done in marine air compression? State the uses of compressed air on board ship. (10 Marks)

Module-3

- 5 a. Explain the principle of refrigeration, with a simple refrigeration circuit. (10 Marks)
b. Troubleshoot the presence of air in the refrigeration system and mention the indications. (10 Marks)

OR

- 6 a. List the desirable properties of refrigerant and lubrication oil used in refrigeration compressor. (10 Marks)
b. Sketch the charging process of the refrigerant in marine refrigeration systems. (10 Marks)

Module-4

- 7 a. Explain the three types of lubrications. (10 Marks)
b. List the classification of fuels. (10 Marks)

OR

- 8 a. Explain the factors affecting combustion. (10 Marks)
b. What are the functions and properties of lubricating oil on ships? (10 Marks)

Module-5

- 9 a. Name the checks done during under water hull inspection. (10 Marks)
b. Write the noise level in work space, navigation space, accommodation space. (10 Marks)

OR

- 10 a. What is vibration? Explain the types of vibration. (10 Marks)
b. What are the different types of maintenance on ship? (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.