

CBCS SCHEME

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15MR63

Sixth Semester B.E. Degree Examination, June/July 2019 Marine Auxiliary Machines – II

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. What is MARPOL? What are its annexes? Explain Annex 1 and Annex 5 in detail. (14 Marks)
b. Explain a SECA area and where are they located. (02 Marks)

OR

- 2 Explain the construction and working of an oily water separator with the help of a neat diagram. (16 Marks)

Module-2

- 3 a. Draw and explain the compressed air system in brief. (12 Marks)
b. Explain the principle of operation of a purifier. (04 Marks)

OR

- 4 a. Draw the detailed cross section of a fuel oil purifier and explain its working. (14 Marks)
b. What is the difference between a purifier and a clarifier? (02 Marks)

Module-3

- 5 a. Explain the working of a 'Thermostatic Bellows type expansion valve'. (14 Marks)
b. What is the difference between a vapour compression and vapour absorption cycle? (02 Marks)

OR

- 6 a. What are the common faults in a refrigeration system? (08 Marks)
b. What are the desirable properties of a refrigerant? (08 Marks)

Module-4

- 7 a. What are the pollutants present in fuel? What are its causes? Give possible corrective action for each. (12 Marks)
b. What are the causes for Crankcase oil dilution? How is it checked? (04 Marks)

OR

- 8 a. What are the desirable properties of lubricants? (12 Marks)
b. What is base number of a lubricant explain its importance? (04 Marks)

Module-5

- 9 As a 2nd engineer you have been asked to plan a main engine decarb in port. Explain the steps you would take keeping in mind the safe working practices. (16 Marks)

OR

10 Discuss the advantages and disadvantages of adopting the following policies for maintenance of engine room equipment.

- i) Planned maintenance
- ii) Condition maintenance
- iii) Periodic maintenance
- iv) Breakdown maintenance.

(16 Marks)

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