

# CBCS SCHEME

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18MR72

## Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 Advanced Marine Auxiliary Machine

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

1 What is MARPOL? Explain its Annexes in detail. (20 Marks)

OR

2 Explain in detail about construction, operation and maintenance of a sewage treatment plant. (20 Marks)

### Module-2

3 With the help of sketches, explain construction, operation and maintenance of a fuel oil purifier in detail. (20 Marks)

OR

4 Sketch a Windlass and explain it in detail. (20 Marks)

### Module-3

5 a. Write down the difference between refrigeration of Air-conditioning. (10 Marks)

b. Draw a simple refrigeration system with major components and explain then in brief. (10 Marks)

OR

6 a. Sketch a Double duct ventilation system and label its parts. (10 Marks)

b. Write short notes on refrigerants used in marine practice and explain their justification. (10 Marks)

### Module-4

7 What are the types of lubricants available in Marine practice? Explain their suitability for various uses. (20 Marks)

OR

8 What are the classification of fuels? Explain them in detail. (20 Marks)

### Module-5

9 Explain in detail about inspection and routine overhauling of underwater fittings and hull. (20 Marks)

OR

10 a. Explain the following :  
i) Planned maintenance  
ii) Preventive maintenance  
iii) Condition monitoring. (12 Marks)

b. Explain in detail about Risk assessment. (08 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.