

# CBCS SCHEME

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21MR44

## Fourth Semester B.E. Degree Examination, June/July 2023 Basic Ship Knowledge and Watch Keeping

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. List 10 machineries in the engine room and explain its purpose. (10 Marks)  
b. Draw the longitudinal view of a general cargo ship and explain the various parts. (10 Marks)

OR

- 2 a. List the major equipment you would find on a ship's deck and explain its purpose. (10 Marks)  
b. Write a short notes on the following :  
(i) Wheel house (ii) Collision bulkheads (iii) CO<sub>2</sub> room. (10 Marks)

### Module-2

- 3 a. Write short notes on : i) Crudes oil carrier ii) Ro Ro Ships (10 Marks)  
b. Write short notes on : i) LPG tanker ii) Bulk carrier. (10 Marks)

OR

- 4 a. Write short notes on the need and the use of (i) Flag state (ii) Port state. (10 Marks)  
b. Explain in detail the arrival and departure procedures for ships in the E/R and at bridge. (10 Marks)

### Module-3

- 5 a. List and explain the roles and responsibilities of the officers in the engine department. (10 Marks)  
b. List and explain the roles and responsibilities of the officers in the Deck department. (10 Marks)

OR

- 6 a. List and explain the pre sea courses an engine cadate has to undergo. (10 Marks)  
b. Write short notes on the role of IMO in world shipping. (10 Marks)

### Module-4

- 7 a. Draw and explain with a neat labelled diagram the load line mark. (10 Marks)  
b. Write short notes on the requirements for watchkeeping duty in the engine. (10 Marks)

OR

- 8 a. Explain the preparation of Ru main engine for a Sea Voyage. (10 Marks)  
b. What is the dry dock? List and explain the different types. (10 Marks)

### Module-5

- 9 a. List and explain the different classes of fire and the fire extinguishers to be used. (10 Marks)  
b. List and explain the actions you would take in case of a large fire in the engine room. (10 Marks)

OR

- 10 a. Write short note on : (i) Collision (ii) Grounding of Ships (10 Marks)  
b. List the actions you would take in case of flooding of the engine room. (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.