

# CBCS SCHEME

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15MR744

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Advanced Marine Technology

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Describe with sketch an Inert Gas system. (08 Marks)  
b. Describe briefly the functions of:  
i) Deck Seal ii) P-V breaker iii) Mast riser iv) Demister (08 Marks)

OR

- 2 Sketch and explain the different types of pipeline systems in oil tankers. (16 Marks)

### Module-2

- 3 a. Explain in detail about different types of Gas Carriers. (14 Marks)  
b. Write down the main characteristic requirements of Gas tanker's/Carriers Insulation materials. (02 Marks)

OR

- 4 Explain the following in detail:  
i) Cargo pumps  
ii) Cargo heaters  
iii) Cargo vaporizers  
iv) Reliquification plants and Boil-off control. (16 Marks)

### Module-3

- 5 a. Explain with neat sketch of COW. (10 Marks)  
b. Write down the advantages and disadvantages of COW. (06 Marks)

OR

- 6 a. Explain load on top system regulations and operations. (08 Marks)  
b. Explain with neat sketch of segregated ballast tanks. (08 Marks)

### Module-4

- 7 a. What is IMDG code? (02 Marks)  
b. Explain the Dangerous Cargo classifications. (09 Marks)  
c. Write a short note on Cargo record book. (05 Marks)

OR

- 8 a. Substantially differentiate LPG and LNG. (06 Marks)  
b. Explain in detail, the procedures of loading and discharging of LPG/LNG cargo. (10 Marks)

### Module-5

- 9 a. What is the difference between a derrick and a crane? What are its advantages and disadvantages? (12 Marks)  
b. Define: i) Dunnage ii) LIM. (04 Marks)

OR

- 10 a. Explain the types of car carriers. (08 Marks)  
b. Explain in detail about the stowage and lashing requirements for timber deck cargoes. (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.