

CBCS SCHEME

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18MR641

Sixth Semester B.E. Degree Examination, June/July 2023 Advanced Marine Technology

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What are the features of single hull and double hull tanker ships? Explain. (10 Marks)
b. Mention and explain the classification of tanker ships. (10 Marks)

OR

- 2 a. Draw a neat labelled diagram of inert gas system and explain the components of I.G. system. (15 Marks)
b. What are the various safety (alarm) systems incorporated in the Inert Gas Plant? (05 Marks)

Module-2

- 3 a. What is a gas carrier? Briefly explain the different types of gas carrier. (15 Marks)
b. What is a cargo vapourizer? Why is it needed? (05 Marks)

OR

- 4 a. With a neat sketch, explain Direct system Re-liquification plant. (08 Marks)
b. Sketch and explain any one type of cargo pump used on board refrigerated gas carriers. (12 Marks)

Module-3

- 5 a. Explain "Load on Top" (LOT). (06 Marks)
b. What are ways to make cargo operation on oil tankers safer? Explain. (14 Marks)

OR

- 6 a. How static electricity is generated in tankers? How it can be avoided? Explain. (10 Marks)
b. What are segregated and clean ballast tanks? Explain about ballast tank protection. (10 Marks)

Module-4

- 7 a. What is IMDG code? Explain in detail about nine classification of dangerous goods. (14 Marks)
b. Write a note on IBC code. (06 Marks)

OR

- 8 a. What are the different types of tank washing machines? Explain. (10 Marks)
b. Explain the general procedure to fight fire on tanker ship. (10 Marks)

Module-5

- 9 a. What is a Bulk Carrier? Explain the types of bulk carriers based on size. (12 Marks)
b. Write a note on Open Hatch Bulk Carriers (OHBCs). (08 Marks)

OR

- 10 a. Define Ro-Ro ship. What are the advantages of Ro-Ro ships? (05 Marks)
b. What are the variations in Ro-Ro ship? Explain. (07 Marks)
c. Explain the features of container vessels. (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.