

CBCS SCHEME

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18MR641

Sixth Semester B.E. Degree Examination, July/August 2022 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 is a tanker ship? Explain the classification of tanker ship. (12 Marks)
b. Briefly explain Pre-Marpol tanker and Marpol tanker. (08 Marks)

OR

- 2 a. Explain with a neat sketch, ring main system of tanker pipeline. (12 Marks)
b. What is a deck seal? Explain the working of deck seal in an IG plant. (08 Marks)

Module-2

- 3 a. Explain the features of fully pressurized and fully refrigerated gas carrier ships. (10 Marks)
b. Sketch and explain independent tank type 'A'. (10 Marks)

OR

- 4 a. Draw a neat sketch of a heater for a gas carrier. When it will be initiated? Explain. (08 Marks)
b. Explain with a neat sketch, deep well pump fitted on board refrigerated gas carrier. (12 Marks)

Module-3

- 5 a. Explain about ballast tank protection. (08 Marks)
b. Explain in detail about oil record book. (12 Marks)

OR

- 6 a. What is COW? What are its advantages and disadvantages? (10 Marks)
b. Explain Emergency Shut Down (ESD) system in detail. (10 Marks)

Module-4

- 7 a. What is a Chemical Tanker? Explain the features of chemical tanker. (10 Marks)
b. What are the different types of tank washing machines? Explain. (10 Marks)

OR

- 8 a. What are the safe practices on board chemical tankers, when handling Noxious chemical cargo? (15 Marks)
b. What are dangerous goods? Why are they useful? What are the objectives of IMDG code? (05 Marks)

Module-5

- 9 a. What are Gearless and self Discharge type of bulk carriers? Explain. (10 Marks)
b. Explain Smaller Bulkers and Larger Bulkers. (10 Marks)

OR

- 10 a. With a neat diagram, explain the mid ship section of a bulk carrier. (12 Marks)
b. Write a note on Container Ships. (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.