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10MR71

Seventh Semester B.E. Degree Examination, June/July 2019
Advanced Marine Technology

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Explain the various bridge equipments and its importance for the safe navigation of the ship. (12 Marks)
b. What are the checks to be done before UMS is made? (08 Marks)
- 2 a. Explain with neat sketch, the working principle of cascade type reliquification of cargo in LNG ship. (12 Marks)
b. What are the factors to be considered before loading the LNG in the vessel? (08 Marks)
- 3 a. Briefly explain with sketch, fully pressurized and fully refrigerated ships. (12 Marks)
b. Write a note on Emergency shutdown system. (08 Marks)
- 4 Name and explain the purpose of different types of cargo piping system in chemical tankers and draw the schematic line diagram of group main system. (20 Marks)

PART – B

- 5 a. Draw and explain IG system on oil tankers and also write the installed alarm and trips. (14 Marks)
b. What are the checks to be done before crude oil washing? (06 Marks)
- 6 a. Explain the importance of ventilation on a car carrier. (08 Marks)
b. Explain the midship section of a car carrier, with a neat sketch. (12 Marks)
- 7 a. Write the aim, scope and guidelines for condition assessment program including inspection items and end reports. (12 Marks)
b. Explain hatch cover construction and related parts in detail. (08 Marks)
- 8 a. What are the methods used on board to reduce SO_x and NO_x emission? (10 Marks)
b. Briefly explain the features of IAPP certificate. (10 Marks)

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.