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10MR71

Seventh Semester B.E. Degree Examination, June/July 2016
Advanced Marine Technology

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
at least TWO questions from each part.**

PART – A

- 1 a. What are the checks done before putting ER on UMS? (15 Marks)
b. What are the safety precaution for unmanned machinery space? (05 Marks)
- 2 a. With a neat sketch, explain thermodynamic cycle applied for gas reliquefaction using simple gas reliquefaction cycle. (15 Marks)
b. What are the duties of a reliquefaction plant? (05 Marks)
- 3 a. With a neat sketch, explain independent tank type B and semimembrane tanks. (12 Marks)
b. Describe fully pressurized and fully refrigerated ships. (08 Marks)
- 4 a. With a neat diagram, explain the classification of chemical tanker. (12 Marks)
b. Mention and explain any four safety devices associated with loading and discharging in a chemical tanker. (08 Marks)

PART – B

- 5 a. With a neat sketch, explain the I.G system on a oil tanker and also mention the alarms and trips on I.G. system. (15 Marks)
b. What are the clucks to be done before crude oil washing? (05 Marks)
- 6 a. With a neat diagram, explain how cargo is loaded on the car carrier? (12 Marks)
b. What is the need of ventilation on a car carrier? (08 Marks)
- 7 a. With a neat diagram, explain the midship section construction of a bulk carrier. (10 Marks)
b. What is the aim and scope of condition assessment program? What is the assessment done on machinery and electrical installation? (10 Marks)
- 8 a. What is an IAPP certificate? Explain. (06 Marks)
b. With a neat sketch, explain electronically controlled common soil system. (14 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.