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10MR71

**Seventh Semester B.E. Degree Examination, Dec.2015/Jan.2016**  
**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. Mention the essential requirements of unattended machinery space. (10 Marks)  
b. What are the safety precautions for unmanned machinery space? (10 Marks)
- 2 a. With a neat sketch, explain Direct system single stage re – liquification plant. (12 Marks)  
b. Explain the requirements of a re – liquification plant. (08 Marks)
- 3 a. Sketch and explain independent tank type ‘A’ and membrane tank. (14 Marks)  
b. Mention and explain any two safety devices on a LPG tanker. (06 Marks)
- 4 a. Explain the tank cleaning procedure followed on a chemical tanker. (12 Marks)  
b. Mention and explain any four safety devices associated with loading and discharging on a chemical tanker. (08 Marks)

**PART – B**

- 5 a. Draw a neat labeled diagram of Inert gas system and explain the components of I.G system. (12 Marks)  
b. Mention and explain the classification of oil tanker. (08 Marks)
- 6 a. With a neat diagram, explain the midship section of a 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 and what all assessment are done on machinery and electrical installation? (10 Marks)
- 8 a. What is an IAPP certificates? Explain. (08 Marks)  
b. With a neat sketch, explain electronically controlled common rail system. (12 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. 4218 = 50, will be treated as malpractice.