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10MR65

Sixth Semester B.E. Degree Examination, June/July 2017
Marine Auxiliary Machinery – II

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 principle and components of basic refrigeration system with neat sketch. (12 Marks)
b. Write the properties of refrigerant and effects on environment. (08 Marks)
- 2 a. Draw and explain thermostatic expansion valve. (10 Marks)
b. Explain high pressure cut off with neat sketch. (10 Marks)
- 3 a. Explain indication, remedy for air in the system and moisture in the system. (10 Marks)
b. Explain the charging procedure of refrigeration system with neat sketch. (10 Marks)
- 4 a. Draw the layout of brine distribution system. (10 Marks)
b. Explain the factors affecting the total load on a cargo refrigerating plant. (10 Marks)

PART – B

- 5 a. Explain the necessity of air conditioning on board ships. (06 Marks)
b. Draw and explain ventilation arrangement of CO₂ room. (07 Marks)
c. Draw and explain ventilation arrangement of battery room. (07 Marks)
- 6 a. Explain detuners with examples. (06 Marks)
b. Explain dampers with examples. (06 Marks)
c. Explain barred zone range. (08 Marks)
- 7 a. Draw the fuel oil treatment system diagram from bunker tank to fuel injector. (10 Marks)
b. Explain any 10 fuel oil properties. (10 Marks)
- 8 a. Explain the types of lubrications. (12 Marks)
b. Explain any 8 terminology used in lubrication system. (08 Marks)

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Important Note - I. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.