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10MR65

Sixth Semester B.E. Degree Examination, June/July 2018

Marine Auxiliary Machines – II

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Explain the principle of refrigeration, with a simple refrigeration circuit. (10 Marks)
b. Explain the characteristics of good refrigerant. (10 Marks)
- 2 Sketch refrigeration plant diagram with parts and explain. (20 Marks)
- 3 a. Trouble shoot the presence of air in the refrigeration system and mention the indications. (10 Marks)
b. Explain the procedure for purging air. (10 Marks)
- 4 a. Explain the factors affecting refrigerated cargo. (10 Marks)
b. Explain the preparation for loading cargo. (10 Marks)

PART – B

- 5 a. What is air-conditioning? (05 Marks)
b. Explain the Procedure for running air-conditioning compressor. (15 Marks)
- 6 a. What is resonance? (05 Marks)
b. What is meant by critical speed? (05 Marks)
c. What is meant by detuners? Mention the example for detuners used in slow speed engines. (10 Marks)
- 7 a. Explain any five important properties of fuel oil. (10 Marks)
b. What are the factors affecting combustion? Explain in detail. (10 Marks)
- 8 a. What are the types of lubrication? Explain it. (10 Marks)
b. What are the important properties of cube oil? (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.