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10MR663

Sixth Semester B.E. Degree Examination, June/July 2018
Ship Fire Prevention and Control

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Explain different methods of fire fighting in detail. (10 Marks)
b. Explain fire tetrahedron and limits of inflammability. (10 Marks)
- 2 a. Explain the test carried out as per FTP code. (10 Marks)
b. Write a note on convention by SOLAS for fire protection during ship construction. (10 Marks)
- 3 a. Explain the requirements and general venting systems provided on-board ships. (10 Marks)
b. What is fire-door and what are the fire zones on ships. Also explain the statutory requirements on fire-door as per SOLAS. (10 Marks)
- 4 a. What are precautions taken against fire on cargo ships and tankers? (12 Marks)
b. Briefly explain different kinds of fire detectors as installed on –board. (08 Marks)

PART – B

- 5 a. Explain water-mist fire suppression system with a line –diagram. (12 Marks)
b. Write a note on : i) Fire Hase ii) Fire main and Fire hydrants. (08 Marks)
- 6 a. Briefly explain different types of breathing devices used on ships. (10 Marks)
b. Explain bulk CO₂ fixed fire fighting installation. (10 Marks)
- 7 a. What are the statutory manuals and instructions should a vessel carry? (05 Marks)
b. Explain the fire fighting procedures when ship is in part and dry dock. (10 Marks)
c. Brief emergency team crew. (05 Marks)
- 8 a. Explain the leadership and duties of emergency team in detail. (10 Marks)
b. What are the products produced during combustion and their effects on life safety. (10 Marks)

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1. Question paper contains 10 questions. Answer any five questions. 2. Questions are compulsory. 3. All questions carry equal marks. 4. All questions are compulsory. 5. All questions are compulsory. 6. All questions are compulsory. 7. All questions are compulsory. 8. All questions are compulsory. 9. All questions are compulsory. 10. All questions are compulsory.