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10MR663

Sixth Semester B.E. Degree Examination, June/July 2015
Ship Fire Prevention and Control

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. Explain Fire tetrahedron and methods of eliminating each sides of an tetrahedron. (10 Marks)
b. Write the classification of fire and its control measures. (10 Marks)
- 2 a. Explain the requirements in respect of materials of construction and design of ships. (10 Marks)
b. Explain standard fire test. (05 Marks)
c. Explain the purpose of fire doors and fire zones. (05 Marks)
- 3 a. Explain the effects of combustion products on life safety. (10 Marks)
b. Explain water mist Fire suppression system. (10 Marks)
- 4 a. With a neat sketch, explain fixed CO₂ flooding system. (10 Marks)
b. Explain any 2 fire detectors. (10 Marks)

PART – B

- 5 a. Explain with sketches, construction, working of following portable extinguishers.
i) Gas pressurized foam type ii) Carbon dioxide type. (12 Marks)
b. Explain international shore coupling. (08 Marks)
- 6 a. Explain with labeled sketch Inert gas system for tankers. (12 Marks)
b. Explain Fireman's outfit, its use and care. (08 Marks)
- 7 a. Explain the weekly, monthly, annual inspection of fire extinguishing appliances. (12 Marks)
b. What is an muster list? Explain its contents. (08 Marks)
- 8 a. Prepare a muster list specifying duties of every crew member on a Cargo ship for "Fire in Accommodation". (15 Marks)
b. Explain the use of fire control plan. (05 Marks)

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.