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10MR663

Sixth Semester B.E. Degree Examination, June/July 2017
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. Draw the vapour concentration and temperature diagram, indicating flammable region, UFL, LFL, flash point, non-flammable region and explain limits of inflammability in brief. (15 Marks)
- b. Write 2 advantages and disadvantages of following fire extinguisher.
i) water ii) CO₂ iii) Foam iv) DCP. (05 Marks)
- 2 a. Explain ionisation fire detection systems in brief with necessary sketches. (10 Marks)
- b. List standard fire test. (05 Marks)
- c. Explain electrical installation on board. (05 Marks)
- 3 a. Explain venting system onboard, with neat sketch. (10 Marks)
- b. Explain the following :
i) Fire doors
ii) Requirements for fighting fire. (10 Marks)
- 4 Explain with neat sketch :
a. CO₂ flooding system
b. Water mist suppression system. (20 Marks)

PART – B

- 5 a. Explain with sketches, construction, working of following portable extinguishers :
i) Gas pressurized water type (14 Marks)
ii) Carbon dioxide type. (06 Marks)
- b. Explain international shore coupling. (06 Marks)
- 6 a. Explain with labeled sketch inert gas system for tankers. (14 Marks)
- b. Explain Fiuman's outfit, its use and care. (06 Marks)
- 7 Prepare a muster list specifying duties of every crew members on a cargo ship for fire in accommodation. (20 Marks)
- 8 a. Explain the following in brief :
i) Fire precaution
ii) Fire drill. (10 Marks)
- b. Explain role of following during occurrence of fire,
i) team leader
ii) bridge team
iii) emergency team
iv) support team
v) first aid/back up team. (10 Marks)

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