

Ship Fire Prevention and Control VTU CBCS Question Paper Set 2018

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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.
- 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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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.

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Sixth Semester B.E. Degree Examination, June/July 2016
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. Write the classification, sources of fire and its control measures. (10 Marks)
 b. Explain fire triangle. (05 Marks)
 c. Explain the limits of inflammability. (05 Marks)
- 2 a. Explain the purpose of fire doors and fire zones. (05 Marks)
 b. Explain standard fire test. (05 Marks)
 c. Explain the requirements in respect of materials of construction and design of ships. (10 Marks)
- 3 a. Explain the effects of combustion products on life safety. (10 Marks)
 b. Explain Deck foam system for tankers. (10 Marks)
- 4 a. Explain any 2 types of detectors. (10 Marks)
 b. Explain the requirements of emergency fire pump. (10 Marks)

PART – B

- 5 a. As per solar, explain the requirements of main fire pump. (10 Marks)
 b. Explain with proper dimensions international shore coupling. Write the applications of same. (10 Marks)
- 6 a. Explain bulk CO₂ fixed fire fighting installation. (10 Marks)
 b. Write a note on fireman's outfit. (10 Marks)
- 7 a. Explain Fire organization onboard ships. (10 Marks)
 b. Write a note on breathing apparatus. (10 Marks)
- 8 a. Explain the Safe working practices in order to prevent fire Onboard ships. (12 Marks)
 b. Explain Fire control plan. (08 Marks)
