

# CBCS SCHEME

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15MR651

Sixth Semester B.E. Degree Examination, June/July 2019

## Ship Fire Prevention and Control

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 Explain
- a. Fire triangle and Fire tetrahedron. (06 Marks)
  - b. Limits of Inflammability. (06 Marks)
  - c. Flash point and Fire point. (04 Marks)

OR

- 2 a. Write a note on combustion products and their effect on human life and safety. (10 Marks)
- b. Write the classification of fire as per ISO and NFPA. (06 Marks)

### Module-2

- 3 a. Write the statutory requirements for fire fighting systems and equipments on vessels. (08 Marks)
- b. List all test carried under FTP code. (08 Marks)

OR

- 4 a. Write a note on Fire doors and Fire zones. (06 Marks)
- b. Explain class A, class B and class C types of Fire division materials for construction and design of ships. (10 Marks)

### Module-3

- 5 a. With a neat sketch, explain fixed CO<sub>2</sub> flooding system. (10 Marks)
- b. Explain construction and operation of any two types of smoke detectors. (06 Marks)

OR

- 6 a. Explain about International shore coupling. (06 Marks)
- b. Explain in detail Fireman's outfit, its use and care. (10 Marks)

### Module-4

- 7 a. Write a note on leadership and duties of each crew member during emergency on – board ship. (08 Marks)
- b. What are the required action and technique adopted for extinguishing fire in machinery spaces? (08 Marks)

OR

- 8 a. Write the procedure of re – entry after putting off fire. (08 Marks)
- b. Briefly explain the checklist of Fire drill. (08 Marks)

### Module-5

- 9 a. How rescue operation is done from fire affected compartments? (08 Marks)
- b. Write safety measures for preventing fire in chemical carriers. (08 Marks)

OR

- 10 a. Write a short note on First aid procedure. (08 Marks)
- b. What are the safe working practice to prevent fire on – board ships? (08 Marks)

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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.