

CBCS SCHEME

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18MR731

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023

Ship Fire Prevention and Safety

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the properties of following fire fighting medium in details
i) Carbon dioxide ii) Water (10 Marks)
- b. Briefly explain Fire Triangle and Fire Tetrahedron (10 Marks)

OR

- 2 a. Write the classification of Fire and explain the properties of materials in each class of fire. (10 Marks)
- b. Briefly explain limits of Flammability. (10 Marks)

Module-2

- 3 a. Explain Different classes of Fire Division in Respect of materials of construction. (10 Marks)
- b. Explain Electrical Installation on Board. (10 Marks)

OR

- 4 a. Explain basic construction requirement of Escape means. (10 Marks)
- b. Write a note on SOLAS chapters II and state all the test carried under FTD code. (10 Marks)

Module-3

- 5 a. Explain water mist suppression system. (10 Marks)
- b. Explain construction, operations of DCP portable fire extinguisher with neat labelled sketch. (10 Marks)

OR

- 6 a. With the help of line diagram, explain Inert gas system for Tankers. (10 Marks)
- b. Briefly explain about Emergency fire pumps, Hydrants and Hoses. (10 Marks)

Module-4

- 7 a. Explain Fire organization on – Board ship. (10 Marks)
- b. Briefly, explain all the contents of master list. (10 Marks)

OR

- 8 a. Write the procedure to be followed during fighting fire in part and Dry Dock. (10 Marks)
- b. Write a note on Emergency Breathing Apparatus (10 Marks)

Module-5

- 9 a. Explain the safe working practices in order to prevent fire on board ship. (10 Marks)
- b. Write the procedure of effective First Aid. (10 Marks)

OR

- 10 Write safety measures for preventing and fighting fire in Tankers. (20 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.