	10MR663
USN // A	Dec 2017/Jan.2018

## Sixth Semester B.E. Degree Examination, Dec.2017/Jan.2018 **Ship Fire Prevention and Control**

Max. Marks:100 Time: 3 hrs.

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

## PART - A

1		1) Auto – Ightuon	Spontaneous combustion  FIRE in detail and its control	iii) Fire damper measures.	iv) Chain (08 Marks) (12 Marks)
	b.	Explain the classification of		c c livioion	Also give the

- a. Explain in detail 'Standard Fire Test' procedure for each class of fire division. Also give the
  - b. Explain the requirements of materials used to enhance fire integrity of bulkneads and decks. (08 Marks)
- Explain the procedure for annual testing and inspections of following: 3
  - (16 Marks) ii) Water mist or sprinkler system i) Fixed CO<sub>2</sub> extinguishing system (04 Marks)
  - b. Write a note on Fire door requirements.
- Explain the construction and working principle of following detectors with a neat labeled sketch a. Ionisation Detector.
  - b. Light Scattering Detector.
  - c. Bi metallic Detector.
  - d. Ultra Violet Detector.

(20 Marks)

## PART - B

- Draw a sectional view of a mechanical foam type portable extinguisher wi. (06 Marks)
  - b. Explain the construction and operation of Fixed CO<sub>2</sub> Fire Fighting system, with a neat labeled sketch. (08 Marks)
- Brief Foreman's outfit, its use and care. (12 Marks) 6
  - b. Explain Inert gas systems, with neat sketch for tankers. (06 Marks)
- a. Explain the methods use to prevention of fire in engine room. (10 Marks) b. Explain in detail fire organization on ship. (04 Marks)
  - Explain the term hot permit.
- (06 Marks) a. Explain International share coupling. (08 Marks) 8
  - b. Write the steps to be taken before entering tanks oil tankers pump room.
    - c. What is Static Electricity and what are possibilities of generation in ships? (06 Marks)