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***B.Tech. Degree VI Semester Examination in
Marine Engineering May 2017***

**MRE 1603 SHIP FIRE PREVENTION AND CONTROL
(2013 Scheme)**

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. Write short notes on **any four** of the following. (20)
- Different classes of fire and the suitable extinguishing mediums.
 - Emergency fire pump.
 - Fire triangle and fire tetrahedron.
 - Qualities of CO₂ and dangers linked to CO₂.
 - Deck water seal.
- OR**
- II. Sketch and describe CO₂ flooding system. What are the routine checks being carried out for the system? (20)
- III. What is a fire detector? What are its functions? Explain different types of smoke detectors used on board ship. How are they tested? (20)
- OR**
- IV. (a) Explain different type of bulkheads fitted on board ships? (10)
(b) Briefly explain standard fire test. (10)
- V. Write short notes on **any four** of the following. (20)
- Fire control plan.
 - International shore connection.
 - EEBD.
 - Oil tanker ventilation system.
 - DCP portable extinguisher.
- OR**
- VI. What are the special precautions to be taken to prevent fire in oil tankers and chemical tankers? (20)
- VII. (a) Describe fire main system with the aid of a neat diagram. (10)
(b) What are the maintenance needed to be carried out on fire main system? (10)
- OR**
- VIII. With the aid of the line diagram explain dry chemical powder fixed fire fighting system. (20)
- IX. How does foam extinguish fire? Explain foam fixed F.F system used in tankers. (20)
- OR**
- X. Write short notes on **any four** of the following. (20)
- Automatic sprinkler head.
 - Muster list and fire drill.
 - Safe working practices.
 - Precautions to be taken before entering enclosed spaces.
 - Breathing Apparatus.