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Roll No

FT - 505

B.E. V Semester

Examination, June, 2013

Fire Prevention & Protection Measures

Time : Three Hours

Maximum Marks : 70/100

Note: Attempt five questions. All questions carry equal marks.

1. a) Explain the terminology "Fire prevention" with suitable example with in an occupancy? 10
- b) Enlist the points of consideration on Fire prevention during site planning? 10

OR

2. a) Define fire resistance time of building structure? What are the different rating available for load bearing and non load bearing elements? 10
- b) Define explosive substances? What are the explosive range for dynamite and RDX? 10

3. a) Describe the color coding of Hazardous pipe line with in the plant? rgpvonline.com 10
- b) Explain IS 2190 for selection of Fire Extinguisher with in a building? 10

OR

4. Explain the hydrant system on the following points:
 - a) Capacity of static water tank
 - b) Discharge rate and pressure requirement.
 - c) Percentage of piping

5. What is foam. Explain it on following points in detail.
 - a) Types
 - b) Properties rgpvonline.com
 - c) Characteristics.

OR

6. a) Write the general requirement of different occupancy as per NFPA - 101.
- b) Explain CO₂ flooding system in detail.

7. a) What is venting and suppression system. Explain in detail.
- b) Explain in detail inergen clean agent system and FM 200.

OR

8. Explain all types of extinguisher on the basis of working principle, 15code mode of operation and maintenance.

9. Give the detailed analysis of fire case study (any one). Which involve large number of mass and property destructions.

OR

10. Write short notes on (any four):

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- a) Water spray system
- b) DCP
- c) Fire walls
- d) Gas/vapour system
- e) Automatic sprinkler system.
