

**DIPLOMA IN FIRE SAFETY MANAGEMENT
(DFSTYM)**

Term-End Examination

June, 2013

**BSE-043 : STRUCTURAL FIRE PROTECTION
OCCUPANCIES AND COMMUNICATIONS**

Time : 3 hours

Maximum Marks : 75

Note : Please write/draw drawings which will fetch you more marks. Attempt all questions, write neatly.

1. Write *true or false* against each statement. 5x1=5
- (a) For Insulating purpose cork, glass wool or foamed stag are used in A.C. Duct.
 - (b) Partition walls are used to divide floors space into rooms.
 - (c) The main advantage of a hose reel in the fixed installation is, it can be operated by the person satisfactorily.
 - (d) The soft suction of delivery hose used on the intake of a pump.
 - (e) While doning and starting up of Breathing apparatus as a precaution it should be donned in fresh air and the upwind of the occurrence.

2. Fill in the Blanks :

5x1=5

- (a) For extinguishing fire involving inflammable liquids _____ extinguisher is used.
- (b) For aerating a mixture of foam compound and water and projecting foam on the fire _____ is used.
- (c) Pure air contains _____ % N_2 gas.
- (d) The purpose of Automatic fire detector is to _____ an outbreak of fire in its incipient stage.
- (e) Advantage of carbondioxide extinguishing media is _____ in action.

3. Write short notes on *any seven*.

7x5=35

- (a) What is fire load ?
- (b) Types of ventilation ? Brief note on Mechanical Ventilation.
- (c) What is meant by Inhibitory factor ?
- (d) What are the properties of good fire extinguishing foam ?
- (e) What are the functions of a sprinkler installations ?
- (f) What is the purpose of ventilation at a fire ?
- (g) What are the various problems faced in fire ground communication ?

- (h) Write short notes on :
- (i) National Building code (PART-IV)
 - (ii) Salvage Procedure and consideration
 - (iii) Automatic water - Sprinkler system

4. Give answer on *any three* in detail. 3x10=30

- (a) What are the different means of escape in Buildings ? Name them and explain any two.
- (b) What do you understand by fire protection system ? What are different protection systems provided in Building ? Explain any two.
- (c) What do you mean by salvage and what are different equipments for effective salvage ?
- (d) What do you understand by :
 - (i) Warning whistle
 - (ii) Working duration
 - (iii) Full duration and Safety margin
 - (iv) Tally Board