

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

**Term-End Examination**

**December, 2011**

**BSE-042 : FIRE PROTECTION AND WATER  
BASED FIRE SUPPRESSION EQUIPMENT**

*Time : 3 hours*

*Maximum Marks : 75*

*Answer any three on the following.* **3x10=30**

1. What are the uses and limitation of a portable fire extinguisher called CO<sub>2</sub> ? **10**
2. How many types of water storage tank can be used in building ? What are the advantages of overhead water tank built for fire fighting ? **10**
3. Write the method of calculating the capacity of one meter of hose. What is the capacity of one meter length hose with a diameter of 90 mm ? **10**
4. What are the causes of decay in fire fighting hoses ? **10**
5. Explain the functions of a hand control branch with the help of a neat sketch. **10**

6. Write short note on *any five*. 5x7=35

- (a) Define vapour density. Is CO<sub>2</sub> lighter than air.
- (b) Define flash point. What is the difference between flash point and fire point.
- (c) Define water relay system. Which type of relay is better and why ?
- (d) What is the importance of portable fire extinguisher ?
- (e) Name atleast 5 types of fire service lines. Explain their uses.
- (f) Wet Riser and Dry Riser
- (g) Jockey Pump

7. Write *True/False* : 5x2=10

- (a) Fire extinguisher comes under first aid fire fighting equipment.
- (b) Atmospheric Pressure at MSL is a one bar.
- (c) Vertical height from the pump eye and free surface of water is called Pump lift.
- (d) To maintain and operate Automatic water sprinkler system Jockey Pump is not required.
- (e) DCP also can be used for 'A' class fire.