

**POST GRADUATE DIPLOMA IN FIRE SAFETY
AND DISASTER MANAGEMENT
(PGDFSTYDM)**

Term-End Examination

December, 2011

MSE-008 : FIRE SAFETY

Time : 3 hours

Maximum Marks : 100

Notes : Attempt all questions.

1. Write *True* or *False* against each statement. $10 \times 1 = 10$
- (a) The Thermal conductivity of Timber is Low.
 - (b) In a fire emergency make use of lift for speedy evacuation.
 - (c) Type IV construction is one in which all structural components have 4 hours fire resistance.
 - (d) The fire risk in a building can be minimized by good housekeeping.
 - (e) Fire load divided by floor area is Fire Load density.
 - (f) Flame detectors work on ionization principle.
 - (g) As per National building code all buildings 10 mtrs or above in height shall be considered as high-rise buildings.

- (h) Sprinklers protect a building from internal fires.
- (i) Down comers are incorporated in buildings where it is difficult to pump water to higher floors.
- (j) Fire works comes in class 8 of Explosives.

2. Write a short notes on *any five* .

6x5=30

- (a) Fire Load and Dead Load.
- (b) Ventilation
- (c) Active and Passive Fire Protection.
- (d) Symptoms of Building Collapse.
- (e) Dry Riser, Wet Riser, Down Comer.
- (f) LPG, its risk and Fire Protection.
- (g) Sprinklers and Drenchers.
- (h) Hydro carbons.

3. Answer *any five* of the following :

12x5=60

- (a) Describe the behaviour of the following in case of fire.
 - (i) Timber
 - (ii) Bricks
 - (iii) Concrete
 - (iv) Metal
 - (v) Glass.
- (b) Write down the classification of Buildings as per National building Code.

- (c) Explain the Fire Protection and safety requirements for High-Rise Buildings.
 - (d) Explain in detail the Fire Safety measures to be taken / provided in Hospitals.
 - (e) What do you understand by the term "Dangerous goods" ? Also explain the precautions to be taken while storing and handling.
 - (f) Write down the general classification of Explosives.
 - (g) Cinema houses and Theatres require special measures for proper fire protection and life safety. List all such measures explaining in detail about seating arrangements and evaluation procedures.
 - (h) Name the various Fixed Fire Fighting Systems. Explain in detail about Foam Flooding System.
-