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

Term-End Examination

June, 2012

MSE-008 : FIRE SAFETY

Time : 3 hours

Maximum Marks : 100

Notes : Attempt all questions.

1. Write *True* or *False* against each statement : **10x1=10**

- (a) Fire Tower is an enclosed stair case which can only be approached from various floors through landings or lobbies separated from both floor areas and stair case by F.R. doors and open to outer air.
- (b) The thermal conductivity of Tomber is high.
- (c) Sprinklers protect a building from external fires.
- (d) Means of Egress is a continuous and unobstructed way of travel from a point in a building or structure to a place of comparative safety.

- (e) Structural steel loses two third of its strength around 500°C.
- (f) Type I Construction is one in which all structural components have 4 hours fire resistance.
- (g) The cracks in the walls are one of the indications /sign for building collapse when it is on fire.
- (h) As per National Building Code, the buildings are classified into 9 categories.
- (i) Fire Lift is installed in a building to enable fire service personnel to reach different floors with minimum delay.
- (j) Stone in general is a good heat insulator.

2. Write a short note on *any Five* : 5x6=30

- (a) Sprinklers and Drenchers
- (b) Means of Egress.
- (c) Dangerous goods and their storage.
- (d) Fire Detectors
- (e) Hydrocarbons
- (f) Symptoms of building collapse.
- (g) Fire safety arrangements in shopping Malls.
- (h) Dry Riser, Wet Riser, Hose Box.

3. Answer *any Five* of the following : 5x12=60

- (a) Briefly explain the Fire safety arrangements to be provided in cinema halls.
 - (b) Explain the difficulties faced by Fire fighters while fighting fires in high rise buildings.
 - (c) Name the various Fixed Fire Fighting systems. Explain in detail any one.
 - (d) Name the various building materials. Also explain the behaviour of any two in case of Fire.
 - (e) Explain the fire hazards in Power plants and also suggest preventive measures.
 - (f) Explain the fire safety arrangements of ware house with large storage area.
 - (g) Briefly explain the active and passive fire protection systems.
 - (h) What do you understand by the term "Explosive" . Explain the general classification of explosive with their symbols.
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