

**Post Graduate Diploma in Fire Safety and
Disaster Management (PGDFSTYDM)**

Term-End Examination

December, 2013

MSEE-002 : HOSPITALS/HOTELS/MALLS

Time : 3 hours

Maximum Marks : 100

Note : Question No. 1 is compulsory. Attempt any four from the remaining.

1. (a) Give short answers. 2x10=20
- (i) What is high rise building ?
 - (ii) Firewall
 - (iii) Small boro hosereels.
 - (iv) Dry pipe sprinklers.
 - (v) Classification of hotels as per NBC.
 - (vi) What are the sign of wall collapse ?
 - (vii) What is active fire protection system ?
 - (viii) Type of Building construction.
 - (ix) Type Fire Hazardous in Buildings
 - (x) Dry riser.
- (b) Fill in the Blanks. 2x10=20
- (i) Automatic sprinkler installation is necessary if the height of the Building is more than _____ m.
 - (ii) Nursing homes falls under _____ of NBC.
 - (iii) The minimum height of staircase riser of the jail building shall be _____ mm.

- (iv) Underground static water storage tank capacity (in ltrs) for A.5 and A.6 building above 15m and not exceed 30m is _____ Ltrs.
- (v) Time of evacuation from a building having non-combustible material in _____ minutes.
- (vi) Under ground shopping malls falls under _____ Building group of NBC.
- (vii) The Flight of an external staircase shall be _____ mm.
- (viii) A 225mm thick Brick wall gives _____ Hrs of Standard Fire Resistance.
- (ix) If the level of building structure lying half or more below ground level known as _____ .
- (x) The stress at which a material fails to return to its original length when load is removed called _____ .

- 2. (a) What are the safety practices for hospital fires ? 8
- (b) What are the different classes of fire noticed in the Hospitals and the causes of fire ? 7
- 3. (a) What are the fire fighting measures required for safety of the shopping malls ? 7
- (b) What are the different Fire Extinguishers are required for installation as fire protection measure in a shopping malls and why ? 8

4. (a) What are the suggestion to give the manager of 5 star Hotel regarding fire safety measures to protect from fire accident ? 8
- (b) How to carry out a fire drill in a 5 star hotel, describe in brief ? 7
5. (a) How to evacuate the people from a hotel rooms in case of fire emergency. 8
- (b) What are the cause of hotel fires ? 7
6. (a) According to occupancy classify the building and identify hotels, Hospitals, and malls are falls under which class of building as per NBC ? 7
- (b) State the different types of Fixed Fire fighting installation systems and explain any one water type installation of high rise building used for shopping malls. 8
7. (a) What are the emergency procedures will be adopt in case of fire emergency in the hospitals ? 8
- (b) How to evacuate a patients from surgical ward? 7
8. (a) Describe the working of heat detector. What is the benefit of providing a fire detector ? 7
- (b) What is meant by escape routes ? What are the necessary points to be considered during construction of an assembly building for safe evacuation of people in the event of fire breakout ? 8
-