

00310

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

Term-End Examination

June, 2013

MSEE-002 : HOSPITALS/HOTELS/MALLS

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Q.No. 1 is compulsory.*
(ii) *Attempt any four questions from remaining.*
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PART-I

PART-I comprises of (a) and (b) Each section carries 20 marks. Each sub question carries two marks.

1. (a) Give short notes answers : 2x10=20
- (i) Fire detectors
 - (ii) Smoke management
 - (iii) Travel distance and assembly area
 - (iv) Breathing apparatus
 - (v) Stair-case of old people home
 - (vi) Watchroom and Control room
 - (vii) Mechanical ventilation
 - (viii) Fire protection in flammable atmosphere
 - (ix) Deluge system
 - (x) Oxygen enriched atmosphere.

(b) Fill in the blanks : 2x10=20

- (i) In pressurised stair-cases _____ can be prevented entering.
- (ii) Negative pressure BA set should be used in _____ places.
- (iii) _____ type radiation is anticipated in X-ray unit.
- (iv) _____ must be affixed to container body giving details of material.
- (v) _____ should be located immediately outside the room for emergency alarm.
- (vi) _____ detector is susceptible to false alarm comparing to others.
- (vii) _____ detector can sense heat, smoke and flame.
- (viii) The corridor leading to ICU should have minimum _____ mm width.
- (ix) Application of water in the form of _____ causes much literal damage.
- (x) _____ should be provided in all stair-cases after series of stair.

PART-II

Attempt **any four** questions. Each question carries
15 marks.

15x4=60

2. Enumerate basic features of fire safety and evacuation plan for a hospital building.
3. Give detail of active and passive fire protection in mall. Give working principle of any one of the system.
4. You have been asked to prepare a training activity for different level of fire staff to be positioned in hospitals/hotels. Draw the schedule with reason for including each item.
5. What are the essential fire safety requirement for hotels as per NBC ? State the escape system in multi-storey five star hotels.
6. What is the function of fire control room in large fire brigade ? State the alarm and mobilization procedure of a fire department.
7. Describe essential requirements in Cinema Hall as per National Building Code. What additional features would you recommend for the purpose of fire safety ?

8. Co-ordination with disaster management authorities would be essential for an administrator of Hospital. Indicate the areas on which Memorandum of Understanding (MOU) should be established with various agencies and why ?
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