

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

Term-End Examination

December, 2012

MSEE-002 : HOSPITALS/HOTELS/MALLS

60709

Time : 3 hours

Maximum Marks : 100

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

PART-I

2x10=20

PART-I comprises of (a) and (b) sections. Each section carries **20** marks. Each questions carry **2** marks under each section.

1. (a) Give short answers :
 - (i) Escape system in hospitals
 - (ii) Drenchers
 - (iii) Smoke detectors
 - (iv) Compartmentation
 - (v) HAZMAT Van
 - (vi) Control room in high rise building
 - (vii) Wet and dry riser
 - (viii) Human factor consideration
 - (ix) Airline respirators
 - (x) Hazards of oxygen system

(b) Fill in the blanks :

2x10=20

- (i) As per NBC, hotels fall in group _____.
- (ii) _____ should not be used in case of fire for evacuation purpose.
- (iii) Spiral staircase should not be more than _____ metre height.
- (iv) Minimum width of staircase in hospitals should be _____ mm.
- (v) Fire in AMRI hospital in Calcutta took place on _____.
- (vi) Fire under control means _____ % percent intensity has been reduced.
- (vii) Fire fighting water tank on roof is part of _____ system.
- (viii) _____ is used for protection against radiation from other building.
- (ix) Width of _____ mm is equal to one and half unit.
- (x) Ventilation means reducing hazardous gas concentration below its _____ limit.

PART-II

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

2. Describe main fire hazard in modern health care facility. 15
3. Evacuation is one of the important part in ensuring safety in hospitals, hotels and malls. Draw an evacuation plan for four storey mall with diagram. 15
4. What kind of training do you suggest for staff of hotel to ensure their full assistance during large fire ? What subjects would you include in training and why ? 15
5. Being a station officer at industrial fire brigade maintained by hospital, describe your sequence of action incase of collapse of building and fire. You are provided to fire tenders and 10 crew members. 15
6. As per national building code list out the requirement for a mall with respect to fire safety. 15

7. Prepare a set of instructions to be distributed to staff members of a hospitals for fire prevention and ensuring fire safety in the premises. Instruction should be general as well as specific to each department. **15**
8. You have been asked to conduct test and construction of various fire safety systems provided in the building. Prepare a list of checks and give detail of testing of smoke detector and yard hydrant. **15**
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