

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

Term-End Examination

December, 2011

MSEE-002 : HOSPITALS/HOTELS/MALLS

00456

Time : 3 hours

Maximum Marks : 100

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

1. (a) Give short answers : **2x10=20**
- (i) What is site plan ?
 - (ii) What is passive fire protection ?
 - (iii) Basic principles of salvage operation.
 - (iv) Evacuation of patient from I.C.U.
 - (v) Classification of Malls as per N.B.C.
 - (vi) Down comers.
 - (vii) Pre-action sprinklers.
 - (viii) Fire Door.
 - (ix) What is unsafe building ?
 - (x) Sub - division A-5 and A-6 of National building code.

(b) Fill in the blanks.

2x10=20

- (i) The drawing indicating location of various services, room utility, escape routes etc. is called _____ plan.
- (ii) Hospitals fall under _____ of National Building Code.
- (iii) Width of tread in staircase shall not less than _____ mm as per NBC.
- (iv) Pressurization of staircases is mandatory as per NBC for covered area of _____ m².
- (v) The slope of ramps in Hospitals should not exceed _____ .
- (vi) Emergency lighting source should be capable of providing lighting for minimum _____ Hrs _____ minutes.
- (vii) Fire Fighting water requirement for A-5 and A-6 buildings is 100000 ltrs + (plus) _____ X pump capacity.
- (viii) EXIT width requirement for Malls is _____ mm minimum.
- (ix) First phase of salvage operation commences with _____ .
- (x) Height of Hand rails of staircase should be _____ mm.

2. (a) What are common Hospital waste materials ? How these to disposed off ? 8
- (b) What is incernator ? What are basic concept for use of incernators ? 7
3. What do you understand by emergency procedure ? Prepare an emergency procedure for occupants of Cinema Halls stating clearly . Who will initiate what action ? 15
4. Evacuation from Hospitals is most difficult task. What suggestions you can give for speedy and risk free evacuation from High rise Hospitals ? 15
5. A Five Storey Mall is coming up and the vendors of food, garments, plastic material, Cinema Halls, Children games, perfumery have submitted their desire to set up their shops. 15
- Make a layout plan for all vendors with justification of safety point of view.
6. (a) Describe all fire fighting system to be provided in a Mall or Hotels. 8
- (b) What are the methods of smoke control in a Mall ? 7

7. You have been assigned the task of making a training syllabus for Hotel Stall. What subjects you would include and why ? 15
8. Security and safety are integral part of same concern. In Hospitals can a security control room be clubbed together with fire control room. If not, why ? If yes, give advantages. 15
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