

00325

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

Term-End Examination

June, 2012

MSEE-002 : HOSPITALS/HOTELS/MALLS

Time : 3 hours

Maximum Marks : 100

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

1. (a) Give short answers : 2x10=20
- (i) What is active fire protection
 - (ii) Dry and Wet risers
 - (iii) Pressurization and Containment
 - (iv) Sub division C-1 as per N.B.C.
 - (v) What is yard Hydrant or ring main.
 - (vi) What is escape Hood.
 - (vii) Constraints in evacuation of invalid patients.
 - (viii) Fire dampers.
 - (ix) Smoke Exhausters.
 - (x) Emergency procedure-define.

(b) Fill in the blanks :

2x10=20

- (i) Fire load in a building is expressed in _____ /m².
- (ii) As per NBC maximum permissible height of Hospital building is _____ meters.
- (iii) In a high rise building _____ and _____ shall not be considered as axits.
- (iv) The illumination of floor and staircases should have minimum light intensity of _____ lux.
- (v) The unit width of staircase equals to _____ mm approximately.
- (vi) Minimum width of staircase in Hospitals is _____ mm.
- (vii) Minimum capacity of Fire lift is for _____ persons.
- (viii) The corridors leading to patients bed rooms should have minimum _____ mm width.
- (ix) Minimum width of aisle in a Cinema Hall for fast evacuation should be _____ meters.
- (x) _____ is the best form of water application for fire fighting.

2. What basic features w.r.t. fire safety and evacuation do you suggest for a Hospital building. 15
3. Compartmentation is one of means to prevent fire/smoke spread. How will you implement compartmentation in a Mall. Also indicate negative attributes of compartmentation. 15
4. You are Incharge of Fire Safety in a Hospital. Prepare a general Instruction for Hospital Staff with a view that they can prevent fire and help assist in first aid fire fighting. 15
5. Regular inspection, are best means of ensuring safety at work place. What would be your priority for different checks and inspection you will carry out with periodicity. What are benefits of such Inspection. 15
6. There is a Fire Call given by owner of a Mall. You are first responder. State your action with reasons. You have a water Tender Type B at your disposal with a crew of 6 men and radio communication. 15
7. What are essential features of a Fire Control room provided in a building with latest means of alarm and mobilisation. 15

8. "Failing to Plan is planning to Fail". Ellucidate 15
above statement with respect to an assembly
building for which you have assigned the task of
consultancy. What would you include in your
plan.
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