

**POST GRADUATE DIPLOMA IN FIRE SAFETY
AND DISASTER MANAGEMENT
(PGDFSTYDM)**

Term-End Examination 00839

June, 2012

**MSEE-004 : MANUFACTURING PROCESS
INDUSTRIES**

Time : 3 hours

Maximum Marks : 100

Note : Section-I Answer all questions - 2 marks each.

Section-II Answer any six questions - carry 5 marks each.

Section-III Answer any two questions. Each question carry 25 marks.

SECTION - I

(Answer all questions. Each question carry 2 marks)

1. What is the first line of defense against hazardous materials and their potential effects on a first responder ?
 - (a) Turn out Gear
 - (b) Placards or labels
 - (c) Recognition and Identification
 - (d) Gathering and Analysing

2. Dry ice and asbestos fall into what hazard class ?
 - (a) Miscellaneous Dangerous Goods
 - (b) Corrosives
 - (c) Flammable solids
 - (d) Toxic materials and infectious substances.

3. What component of a placard is intended to help a first responder differentiate between the hazard and hazard class ?
 - (a) Colour
 - (b) UN Hazard class or Division Number
 - (c) Symbol
 - (d) UN /HA ID Number, class description

4. What do labels and placards indicate :
 - (a) Identity of Hazardous materials
 - (b) Primary Hazard class of materials
 - (c) Properties of Hazardous materials
 - (d) All the above

5. What hazardous materials might be involved in an accident at a hospital ?
 - (a) Radioactive biohazards
 - (b) Liquid Oxygen
 - (c) Cryogenic materials
 - (d) All of the above

6. Using the military marking system, the orange X indicates what type of explosive ?
 - (a) Mass Fire hazard
 - (b) Moderate Fire hazard
 - (c) Explosion with Fragments
 - (d) Mass Detonation

7. Using the military system, the orange upside - down triangle indicates what types of explosive ?
- (a) Explosion with Fragments
 - (b) Mass Fire hazard
 - (c) Moderate Fire hazard
 - (d) Mass detonation
8. What is a typical hazard that can be found at a pool supply store ?
- (a) Radioactive biohazards and liquid oxygen
 - (b) Cleaning solvents, glues and epoxies
 - (c) Corrosives and oxidizers (such as HTH)
 - (d) Cryogenic and fissionable materials
9. At a fixed facility, what is the minimum bar of an ultra - high CO₂ pressure container ?
- (a) 51
 - (b) 3,000
 - (c) 600
 - (d) 100
10. What marking type is affixed to a non - bulk packaging such as individual boxes, cylinders and packages ?
- (a) Marking
 - (b) Marker
 - (c) Label
 - (d) Placard

SECTION - II

(Answer any six questions. Carry 5 marks each)

11. Why casualty in small units is double than large units of the sector ? Explain why ?
12. What is the correct way to lift an article below the arm level ?
13. Write a short note on fire extinguishers.
14. While working in an Industry why we protect our foot ?
15. Why portable appliances be tested frequently and how many times it must be tested in a year ?
16. Why we keep Occupational Health Surveillance Records and for how many years these records should be kept ?
17. Smoking is prohibited in a certain area. How you detect that there is smoke ?
18. Temporary employees have the same right as permanent employees. Do you agree - If not give reasons.

SECTION - III

(Answer any two from following questions - carry 25 marks each)

19. Describe minimum 3 Hard protective Gears in use for Industrial Safety ? Define the usages also.
 20. Describe general limitation on the conditions for using gas mask.
 21. What are the important do'es and don'ts for prevention of electrical fire ? Also explain various fire prevention measures to be adopted in industry / plant.
 22. Define emergency preparedness. Write short note on the importance of training and awareness programme.
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