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

Term-End Examination

June, 2012

MSE-011 : INDUSTRIAL SAFETY

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 "category ZZ" explosive ?
 - (ii) Fire Tower.
 - (iii) Define Nervous system.
 - (iv) What is ABC of CPR ?
 - (v) What does biological hazard means ?
 - (vi) What is de - Contamination ?
 - (vii) Class 'C' petroleum.
 - (viii) Basic features of Emergency Evacuation Plan
 - (ix) Personal protection Equipment (ensembles)
 - (x) Noise Pollution.

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

- (i) Minimum Fire resistant rating for an external wall of a warehouse should be _____ to _____ Hrs in vicinity of other buildings.
- (ii) Maximum quantity of Class 'A' fuels which can be retained without License is _____ Litres.
- (iii) The evacuation time for class 'A' (Type 1) Construction buildings is _____ minutes.
- (iv) Burning of epi- dermis means _____ degree burn.
- (v) As per explosive Act, the power of search and seizures of an explosive in a district rests with _____.
- (vi) "Complex fracture" means, the bone has been _____.
- (vii) The physiological hazard with HCN gas is _____ if, inhaled.
- (viii) In a flammable vapours presence, the electrical switches must be _____.
- (ix) Ventilation also means reduction of hazardous gases below their _____ limit of Concentration.
- (x) A healthy man will consume _____ litres of air perminute.

2. (a) What is blood circulation system. 8
(b) What is Carbon - mono - oxide poisoning and what first aid should be given to a person affected by this ? 7
3. What risks are associated with Coal mines. What preventive measures are recommended to reduce the threat to human beings working in mines. 15
4. (a) What are nuclear, biological and chemical hazards. 8
(b) List the equipments used for Protection against chemical hazards, and their utility. 7
5. What do you understand by Local building bye- laws. Which area these laws can cover as supplement or compliment to National building Codes ? 15
6. What does term "Factory" implies as per Factory Act of India ? What are basic concept adopted in this act with respect to Human and environment safety. 15
7. (a) Loss prevention is one of the concern for safety professionals. How can this be acheived. 8
(b) What is role of Insurance in Loss mitigation. 7
Justify your answer in the light of (a) above.

8. (a) Differentiate among Sabotage, Sub-version and Arson. 8
- (b) What is role of eye witness in an accident in determining the cause of accident as Arson. 7
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