

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

**Term-End Examination**

**June, 2013**

**MSEE-004 : MANUFACTURING PROCESS  
INDUSTRIES**

*Time : 3 hours*

*Maximum Marks : 100*

*Note : Questions to be attempted as per instructions given  
against each section.*

**SECTION-I**

**(2 marks each )**

1. The Unit dB stands for \_\_\_\_\_.
2. Noise level in working zone should not exceed \_\_\_\_\_.
3. Explain the term VDU.
4. Employees must have to consider the SOP before commencing and processing work. Yes/No.
5. Does term 'Safety' has its own legalizations.  
Yes/No.

6. All elevated place above 2 mtrs above the floor or ground should be provided with safe mean of access. Yes/No.
7. Ventilation is must require before welding and cutting operation in any confined space. Yes/No.
8. We should always need the PPE's to do a safe working process. Yes/No.
9. If the sand is too fine, its permeability will be high. True/False.
10. In a SHE Policy, 'H' is used for 'Hazardous'. True /False.

## SECTION-II

(Any 6 questions. 5 marks each )

1. What are the basis requirements for selecting a Fire Extinguisher for any premises as per the standards ?
2. Write a short note on Safety Training and awareness.
3. List out the points that a safety officer need to consider while working on height.
4. How fire detectors are associated with Water Spray Systems ?
5. Write the names of Hazardous materials as per the Standards.
6. Training should be required for both permanent and non-permanent employees. Justify.
7. What special point to be considered for using ladders in slippery areas ?
8. Which types of PPE's are required in a welding and cutting processing work ?

### SECTION-III

Answer *any two* Questions. Each carries 25 marks.

1. Many Accidents take place due to improper use of tools and defective hand tools and equipment. What precautions are necessary in this regards ? Also state the points which is kept in mind while selecting the PPE's.
2. Explain different types of PPE's and Clothing used by industries for following purpose :
  - (a) Head Protection
  - (b) Face and Eye Protection
  - (c) Foot and Leg Protection
  - (d) Lungs and Respiratory Tract Protection
  - (e) Body Protection
3. Explain the phenomena of Electrical Shock. What is the relationship between voltage and electrical shock current ? Also write 10 preventive measures to prevent electrical shocks in a substation.
4. Explain the difference between hazard, risk and risk assessment and risk management ? What are the 4 risk strategies ? Also specify risk control measures in order of preference.
5. Write short note on :
  - (a) Fire Risk
  - (b) Permit to Work System (PTW)
  - (c) Need of Safety Organizations
  - (d) SHE Policy
  - (e) Proximity Suit