

POST GRADUATE DIPLOMA IN  
MANAGEMENT IN INDUSTRIAL SAFETY,  
HEALTH & ENVIRONMENT PGDM (ISHE)

Term-End Examination

June, 2013

MIS-012 : HAZARDS RISK ANALYSIS AND  
SAFETY IN USE OF CHEMICALS

Time : 3 hours

Maximum Marks : 70

**Note :** (i) Attempt *five* questions in *all*. Question no. 1 and 2 are *compulsory*.

(ii) All questions carry *equal* marks.

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1. Define *any four* of the following : 4x3½=14
- (a) Risk identification
  - (b) Chemical Hazard
  - (c) Occupational Hazard
  - (d) Explosive chemicals
  - (e) On site emergency
2. Write short notes on *any four* of the following :
- (a) Occupational health hazards in chemical industries 4x3½=14
  - (b) Toxic (poisonous) and corrosive chemicals
  - (c) Hazard Analysis
  - (d) Chemical burns
  - (e) Storage and transportation of chemicals

3. Describe in detail the classification of chemicals with examples of hazard control. 14
  4. What are the safety requirements that are used for biological materials and effluent treatment in industry ? 14
  5. Explain the techniques and methods of hazard identification. 14
  6. Explain the safety parameters in storage and import of Hazardous materials as per Rules 1989. 14
  7. Describe in detail the risk to analysis and control measures be followed in industrial operations. 14
  8. Enlist the causes of chemical disasters and explain how they differ from other types of disasters ? On the basis of your observation suggest the essential elements of the preparedness and response activities for mitigation of chemical disasters. 14
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