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**BIS-014** 

## DIPLOMA IN INDUSTRIAL SAFETY, HEALTH AND ENVIRONMENT

MANAGEMENT DM (ISHE)

**Term-End Examination** 

December, 2010

## BIS-014 : HAZARDS, RISK, ANALYSIS AND SAFETY IN USE OF CHEMICALS

Time: 3 hours

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Maximum Marks: 70

Note: (i) Answer five questions in all. Question No.1 and 2 are compulsory.

(ii) All questions carry equal marks.

**1.** Define *any four* of the following :

 $4x3\frac{1}{2}=14$ 

- (a) Hazards
- (b) Static Electricity
- (c) Combustible gas
- (d) Explosive Chemicals
- (e) On site emergency
- **2.** Write short notes on *any four* of the following:
  - (a) Job safety analysis

 $4x3\frac{1}{2}=14$ 

- (b) Occupational health hazards in chemical industries
- (c) Chemical & biological hazards
- (d) Toxicity and flash point
- (e) Storage and Transportation of chemicals.

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- 3. What are the five leading causes of accidents in a 14 chemical industry?
- Describe the following types of airborne 14
  contaminants: dust, fumes, smoke, mists, gases
  in a chemical industry.
- Explain the four factors that make robots more 14 potentially dangerous than other machines.
- 6. Discuss the major categories of "elements at risk". 14
- 7. Discuss the Bhopal Gas Tragedy bringing out the lessons learnt.
- 8. Describe briefly the impact of industrial effluents and highlight the industry- specific treatment schemes.