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

Term-End Examination

December, 2012

MIS-003 : MACHINES AND MACHINE GUARDS

Time : 3 hours

Maximum Marks : 70

Note : Attempt five questions in all. Questions No.1 and 2 are compulsory. All questions carry equal marks.

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1. Define *any four* of the following : **4x3½=14**
 - (a) Accident Prevention
 - (b) Saffocation
 - (c) Industrial Safety Engineer
 - (d) Unguarded Machine
 - (e) Mechanical Hazard

 2. Write short notes on *any four* of the following : **4x3½=14**
 - (a) Occupational diseases
 - (b) Stability in Forklift
 - (c) Preventive Maintenance
 - (d) Fencing of Machines
 - (e) Power transmission devices

3. Prepare a safety inspection check-list for machines and machine guards in an industry. 14
4. What are the five leading causes of accidents in an automobile industry ? 14
5. Describe how robot can cause hazards to workers. Discuss precautions to be taken by workers while lifting loads in a place where robots are moving around. 14
6. Write the importance of safety in power presses with brief summary of power press regulations. 14
7. Describe the employer's responsibilities in using machinery with the provisions and use of work equipment. 14
8. (a) What are the basic principles for reducing the risk of injury while working on a machines ? 14
(b) Explain in brief the safety measures for the use of abrasive wheels.
