

00584

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

Term-End Examination

June, 2011

MIS-003 : MACHINES AND MACHINE GUARDS

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) Accident prevention
 - (b) Indirect costs of accidents
 - (c) Suffocation
 - (d) Employer liability
 - (e) Industrial safety engineer
2. Write short notes on *any four* of the following : 4x3½=14
- (a) Occupational diseases
 - (b) Safety measurement
 - (c) Stability in forklift
 - (d) PPE's for safe working in rotating machines
 - (e) Preventive maintenance

3. What are the five leading causes of accidents in an automobile industry ? 14
4. List and briefly explain the most common types of mechanical injury hazards. 14
5. Describe how robot can cause hazards to workers. Discuss precautions to be taken by workers while lifting loads. 14
6. Identify the sources of danger in a Press Spop and explain briefly the steps you would take for protection against such dangers. 14
7. What are the selection criteria of operator of Fork Lift Truck ? Suggest some check list before using a fork lift. 14
8. (a) What do you understand by mobile crane ? Mention the safety parameters to be observed in its operation. 14
(b) Explain with examples a case study with reference to use of mobile crane.

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