

00189

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

Term-End Examination

December, 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) Ripping and cross cutting
 - (b) Unguarded machines
 - (c) Mechanical hazard
 - (d) Material Handling
 - (e) Dangerous parts

 2. Write short notes on **any four** of the following : **4x3½=14**
 - (a) Fencing of machines
 - (b) Accident on unguarded machines
 - (c) Safety precautions for welding process
 - (d) Safe working practices
 - (e) Industrial robots for safety measures

3. What is noise ? Describe briefly the effects of noise on human health. 14
4. (a) What are the basic principles for reducing the risk of injury while working on the machines ? 7+7
(b) Explain in brief the safety measures for the use of abrasive wheels.
5. (a) Explain the maintenance and inspection of fork lift truck to avoid failure and accidents. 7+7
(b) Describe atleast ten typical check points for daily inspection of fork lift truck.
6. (a) What are the selection criteria of fork lift Truck Operator ? 7+7
(b) Explain the training needs and contents of module for training the fork Lift Truck Operator.
7. Explain the general principles of machine guards for reducing the risk of injuries from work involving machineries. 14
8. Write the importance of safety in power presses with brief summary of power press regulations. 14