

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

Term-End Examination

June, 2013

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.

1. Define *any four* of the following : 4x3½=14
- (a) Indirect cost of accidents
 - (b) Employer liability
 - (c) Ripping and cross cutting
 - (d) Material handling
 - (e) Dangerous parts
2. Write short notes on *any four* of the following : 4x3½=14
- (a) Safety measurement
 - (b) PPE's for safe working in rotating machines
 - (c) Safety precautions for welding process
 - (d) Safe working practices
 - (e) Industrial robots for safety measures

3. List and briefly explain the most common types of mechanical injury hazards. 14
 4. Identify the sources of danger in a Press shop and explain briefly the steps you would take for protection against such dangers. 14
 5. (a) What do you understand by mobile crane ?
Mention the safety parameters to be observed in its operation. 2x7=14
 - (b) Explain with examples a case study with reference to use of mobile crane.
 6. Explain earth moving safety and write down the responsibilities in earth moving operations. 14
 7. Write the core information with respect to worker's injury at machine, the type of hazards in mechanical operations. 14
 8. What is noise ? Describe briefly the effects of noise on human health. 14
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