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

Term-End Examination
June, 2012

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) Fixed Guards
 - (b) Tapped Wheels
 - (c) Machine guarding
 - (d) Abrasive discs and cylinder wheels
 - (e) Interlocking guards.
2. Write short note on *any four* of the following : 4x3½=14
- (a) Lifting Machines
 - (b) Fly wheel and speed limits
 - (c) Power Presses
 - (d) Fire Extinguishers
 - (e) Trip guards.

3. List down the various protective equipments for workers to avoid accidents. Describe in brief any five of them. 14
 4. What are the different considerations made in the design of equipment and machines to reduce accidents ? 14
 5. Describe safety in lifting machines with specific mention of cranes. 14
 6. Write the employer's responsibilities in using machinery with the provisions and use of work equipment. 14
 7. Write the core information with respect to worker's injury at machine, the type of hazards in mechanical operations. 14
 8. Explain the safety precautions to be taken in earth moving. 14
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