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

Term-End Examination December, 2013

MIS-003: MACHINES AND MACHINE GUARDS

Time: 3 hours

Maximum Marks: 70

- Note: (i) Attempt five questions in all.
 - (ii) Question No.1 and 2 are compulsory.
 - (iii) All questions carry equal marks.
- 1. Define **any four** of the following:

 $4x3\frac{1}{2}=14$

- (a) Revolving Machinery
- (b) Safety of job
- (c) Ventilation
- (d) Ripping and cross cutting
- (e) Machine guarding
- 2. Write short notes on any four of the following:
 - (a) Safety of the workers

 $4x3\frac{1}{2}=14$

- (b) Quality of safety management
- (c) Material handling
- (d) Accident on unguarded machines
- (e) Occupational diseases

- 3. Explain the causes of accident in a large 14 manufacturing industry.
- 4. Describe safety in lifting machines with specific 14 mentioning of cranes.
- 5. What are the different considerations made in the design of equipment and machine to reduce accidents?
- 6. (a) What are the selection criteria of fork lift 14 truck operator?
 - (b) Explain the training needs and contents of module for training the fork lift truck operator.
- 7. List down the various protective equipments for workers to avoid accidents. Describe in brief any five of them.
- 8. Describe how robot can cause hazards to workers. 14
 Discuss precautions to be taken by workers while lifting loads in a place where robots are moving around.