

**DIPLOMA IN MANAGEMENT IN INDUSTRIAL
SAFETY, HEALTH & ENVIRONMENT DM
(ISHE)**

00966

Term-End Examination

June, 2010

BIS-005 : MACHINE AND MACHINE GUARDS

Time : 3 hours

Maximum Marks : 70

*Note : (i) Answer any five questions. Question No. 1 and 2
are compulsory.*

(ii) All questions carry equal marks.

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1. Write short notes on *any four* of the following : **4x3½=14**
- (a) PPEs for safe working with rotating machines.
 - (b) Fencing of machines
 - (c) Material handling
 - (d) Importance of Standard Certification (IS, EU, BS, etc.)
 - (e) First Aid
2. Define *any four* of the following : **4x3½=14**
- (a) Machine Guards
 - (b) Interlocking Guards
 - (c) Pressure Vessels
 - (d) Prime Movers
 - (e) Safety Integration

3. Describe the various types of machine guards with brief details. 14
 4. (a) What are the basic principles for reducing the risk of injury while working on the machines ? 2x7=14
(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. 2x7=14
(b) Describe at least ten typical check points for daily inspection of fork lift truck.
 6. Explain the training needs and contents of module for training the Fork Lift Truck Operator. 14
 7. Prepare a check-list of machine guards. 14
 8. What are the roles of protective equipment and clothing in avoiding hazards in work shop ? 14
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