

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

Term-End Examination

December, 2012

MIS-010 : ELECTRICAL SAFETY MANAGEMENT

Time : 3 hours

Maximum Marks : 70

Note :(i) Attempt five questions. Question No.1 & 2 are compulsory.

(ii) All questions carry equal marks.

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1. Define *any four* of the following : **4x3½=14**
 - (a) Resistance
 - (b) Static electricity
 - (c) Power factor
 - (d) Capacitor
 - (e) Electrical fire

 2. Write short notes on *any four* of the following : **4x3½=14**
 - (a) Transformer.
 - (b) First aid during electrical shock.
 - (c) Fire extinguisher for electric fire.
 - (d) Use of PPE in electrical work.
 - (e) Work permit system.

3. Describe the methods of earthing of electrical equipments and criteria for selection of sizing of earth bus for different applications. Why double earthing is recommended? 14
 4. Describe electrical hazards in generation and distribution. What are the fundamentals of safety? 14
 5. Discuss the electrical accidents causing harm to men, machines, and materials. Describe general safety measures to be observed during electrical accidents? 14
 6. What are the periodic and efficient check ups for motors and electrical installation to avoid electrical hazards? 14
 7. Describe the classification and selection of electrical installation in hazardous area. 14
 8. Explain the procedure of lock-out tag-out in electrical operations. 14
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