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MIS-024

**P. G. CERTIFICATE IN
INDUSTRIAL SAFETY /
P. G. DIPLOMA IN INDUSTRIAL
SAFETY
(PGCINDS/PGDINDS)
Term-End Examination
June, 2026**

**MIS-024 : MECHANICAL AND ELECTRICAL
SAFETY MANAGEMENT**

Time : 3 Hours

Maximum Marks : 70

Note : (i) Answer any **seven** questions.

(ii) All questions carry equal marks.

1. (a) What are the main responsibilities of machines operators and employers in ensuring job safety ? 5
- (b) Describe the importance of proper training for workers before joining job works. 5

2. (a) Explain different categories of risks associated with Mechanical Material Handling Equipment (MMHE). 5
- (b) Write down the basic safety measures guidelines while handling with the electrical equipments. 5
3. (a) List down the various Personal Protective Equipment (PPE) required at the time of holding process. Explain any *one* of them. 5
- (b) What are the elements of material handling ? Write down the advantages of correct material handling. 5
4. (a) What are the safety laws ? Discuss the role of supervisor and training in industrial safety. 5
- (b) What are the first aid treatment measures that need to be adopted in case of chemical poisoning ? 5
5. What is CPR ? What are the procedures of first aid to be followed for unconscious electrical shock victims ? 10

6. Explain the role of earth leakage protective device and earthing in electrical safety concern. Explain with a schematic diagram. 10
7. (a) Describe the steps taken to control the preliminary damage after gas leakage accident. 5
- (b) Discuss various safety tips when working on transformer. 5
8. (a) Discuss about the various electrical tools and its uses with appropriate diagram. 5
- (b) Write down the various safety points while measuring current, voltage and resistance. 5
9. Write short notes on any *two* of the following : 5+5
- (a) Earth leakage protective devices
- (b) MTBF
- (c) Safe guarding
- (d) Push-back and Anti-kick-back system

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