

**P. G. CERTIFICATE IN
INDUSTRIAL SAFETY / POST
GRADUATE DIPLOMA IN
INDUSTRIAL SAFETY
(PGCINDS/PGDINDS)
Term-End Examination
December, 2025**

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

Time : 3 Hours

Maximum Marks : 70

Note : Answer any **seven** questions. All questions carry equal marks.

1. (a) Discuss the various aspects that have to be considered for hazard identification and prevention. 5
- (b) Enumerate the various criteria for safeguarding. 5

2. (a) Discuss various risk factors associated with manual handling activities. How can it be avoided ? 5
- (b) Explain Reliability and Mean Time Between Failures (MTBF) with suitable examples. 5
3. (a) Discuss the main causes of accidents in any hazardous chemical manufacturing industry. 5
- (b) Describe different actions that can be considered during job work in industries. 5
4. (a) Differentiate between fixed path and variable path equipments. 5
- (b) What are the main precautions carried out at the time of work at high voltage lines ? 5
5. Discuss the primary causes of electrical hazards. How can it be avoided ? 10

6. (a) Why are Push-Back and Anti-Kick-Back systems required in timber industries ? Explain in brief. 5
- (b) Write down the safety measures while doing Megger test. 5
7. (a) Write down the various safety points while working with circuit breakers. 5
- (b) Enlist do's and don'ts in manual lifting operations. 5
8. Write short notes on any *two* of the following : 5+5
- (a) Mechanical Material Handling Equipments (MMHE)
- (b) CPR
- (c) Safety Data Sheets
- (d) Personal Protective Equipment

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