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MIS-021

**POST GRADUATE CERTIFICATE IN
INDUSTRIAL SAFETY/POST
GRADUATE DIPLOMA IN
INDUSTRIAL SAFETY/
M. SC. (INDUSTRIAL SAFETY)
(PGCINDS/PGDINDS/MSCINDS)**

Term-End Examination

December, 2025

**MIS-021 : SAFETY PHILOSOPHY AND
PRINCIPLES OF ACCIDENT PREVENTION**

Time : 3 Hours

Maximum Marks : 70

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

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1. (a) What is Safety Audit ? How is it
conducted ? 5
 - (b) Discuss about eyes and face protection
equipment in detail. 5

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2. Explain the concept of fire triangle and discuss the main causes of fire in detail. 10
3. (a) What are the life cycle phases of a safe design ? Discuss their benefits also. 5
(b) Describe in detail the hazards in storing and handling of hazardous materials. 5
4. Describe in detail the four ages of safety thinking. 10
5. (a) What is the role of training instructor and training director in a safety training programme ? 5
(b) Explain any *five* safety training techniques in brief. 5
6. Differentiate between any *two* of the following : 5+5
 - (a) Safety Audit and Safety Inspection
 - (b) Seiri and Seiton
 - (c) Hazard and Risk
7. (a) Discuss the various causes of accident in brief. 5
(b) Explain the various elements of incident investigation forms in brief. 5

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8. Explain the different types of cost associated with industrial accidents using a suitable example. 10
9. Write short notes on any *four* of the following : $4 \times 2.5 = 10$
- (a) Bhopal gas tragedy
 - (b) Swiss cheese theory
 - (c) Domino theory of accident causation
 - (d) Mobile cranes
 - (e) Hazard assessment
 - (f) Combustible dust

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