

No. of Printed Pages : 3

MIS-021

**POST GRADUATE CERTIFICATE IN
INDUSTRIAL SAFETY/PG DIPLOMA
IN INDUSTRIAL SAFETY/M.SC.
(INDUSTRIAL SAFETY) / M. A.
(ENVIRONMENTAL AND
OCCUPATIONAL HEALTH)
(PGCINDS/PGDINDS/
MSCINDS/MAEOH)
Term-End Examination
June, 2026**

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

Time : 3 Hours

Maximum Marks : 70

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

(ii) All questions carry equal marks.

1. Describe the design aspects for safe operation with the help of a suitable example. 10

2. (a) Explain the types of permit procedures and their significance in adopting safety measures. 5
- (b) Why are PPE required in industrial safety ? Explain in brief. 5
3. What is fire ? Discuss various agents to fight different classes of fire in detail. 10
4. (a) What are the benefits of using ergonomics in the industry ? 5
- (b) Discuss the major occupational hazard associated with manual material handling. 5
5. (a) What are 5'S' ? Why should we implement 5S ? 5
- (b) Explain the main hazards in crane operation. 5
6. (a) Explain safety culture development cycle with the help of a neat diagram. 5
- (b) What are the responsibilities of employees in meeting the objective of safety policies ? 5

[3]

7. (a) Explain the safety training evaluation process. 5
- (b) What is the significance of performing a safety audit ? 5
8. (a) Discuss the various key factors considered in analysis of an accident. 5
- (b) Discuss the activity based approach for accident cost analysis. 5
9. Write short notes on any **four** of the following : $4 \times 2.5 = 10$
- (a) Job Safety Analysis
- (b) Fire at Jaipur oil depot in 2009
- (c) Pure chance theory
- (d) Dale's cone of learning
- (e) Power arc blast
- (f) Head protecting equipments

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