

**POST GRADUATE CERTIFICATE IN
INDUSTRIAL SAFETY/POST
GRADUATE DIPLOMA IN
INDUSTRIAL SAFETY
(PGCINDS/PGDINDS)**

Term-End Examination

June, 2025

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

Time : 3 Hours

Maximum Marks : 70

Note : *Question No. 1 is compulsory. Attempt
any **five** questions from the rest i.e.,
Question Nos. 2 to 9.*

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1. (A) Choose the correct alternative : $5 \times 2 = 10$
- (i) When should you follow 5 's' ?
- (a) For an inspection
- (b) Spring cleaning
- (c) All the time, continuously
- (d) Whenever visitor comes

- (ii) In case of arc welding, one should protect his eyes using :
 - (a) Dark glass screen
 - (b) Safety goggles
 - (c) Mask
 - (d) Helmet
- (iii) The worker requires foot protection in work environment with :
 - (a) Fine dust and fluff
 - (b) Hot and poisonous fumes
 - (c) Electrical hazards
 - (d) Penetrating materials such as nails or spikes
- (iv) Class-A fire consists of fire due to :
 - (a) Wood
 - (b) Oil
 - (c) Transformer
 - (d) Chemical
- (v) is best suited to extinguishing oil or flammable liquid fire.
 - (a) Soda acid
 - (b) Vaporizing liquid
 - (c) Foam
 - (d) Dry chemical

(B) Answer the following questions in short : 5×2=10

- (i) Differentiate between hazard and risk.
- (ii) What are safety functions and sub-functions ?
- (iii) Define active fire protection system.
- (iv) What is safety awareness ?
- (v) Discuss the importance of environmental safety.

- 2. (a) What is the need of monitoring a training programme ? 5
- (b) Discuss the importance and procedure of developing safety policy. 5
- 3. What are the roles and responsibilities of safety officers and managers ? Explain briefly. 10
- 4. Describe the 5 's' concepts of housekeeping. 10

5. Discuss any *one* of the industrial disasters in India in detail. 10
6. (a) Describe the process of evolution of workplace safety. 5
- (b) Explain Domino's theory of accident causation. 5
7. What are the loss control techniques ? How are theses used to reduce the possibility of a loss and limit the severity ? Explain briefly. 10
8. Discuss the fire protection measure in detail. 10
9. Write short notes on any *two* of the following : 5+5
- (a) Safety culture
- (b) Handling of hazardous material
- (c) Design aspects of safety operation

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