POST GRADUATE CERTIFICATE IN INDUSTRIAL SAFETY (PGCINDS)

Term-End Examination June, 2022

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 Questions no. 2 to 8.

1. (A) Choose the correct option :

 $5 \times 2 = 10$

- (a) When should you follow 5"S"?
 - (i) For an inspection
 - (ii) Spring cleaning
 - (iii) All the time, continuously
 - (iv) When a visitor comes to your place
- (b) What should be firmly secured to the machines?
 - (i) Guards
 - (ii) Operating instructions
 - (iii) Awareness barrier
 - (iv) Personal Protective Equipment

	(c)	Which of the following is a physical hazard agent?				
		(i) Falls				
		(ii) Electricity				
		(iii) Inhalation				
		(iv) All of the above				
	(d)	Class-A fire consists of fire due to				
	(i) Wood					
		(ii) Oil				
	(iii) Transformer					
		(iv) Chemical				
	(e)	is best suited to				
		extinguishing oil or flammable liquid fire.				
		(i) Soda acid				
		(ii) Vaporizing liquid				
		(iii) Foam				
		(iv) Dry chemical				
(B)	Dist	Distinguish between the following: $5\times2=10$				
	(a)					
	(b)	, , , , , , , , , , , , , , , , , , ,				
	(c)	1				
	(d)					
	(e)	Severity rate and Incidence risk				

2.	Discuss 1	the fire	protection	measures	in	detail.
			1			

- **3.** (a) Describe the various elements of loss control.
 - (b) Explain the role of safety awareness posters and National Safety Day. 5+5=10
- **4.** (a) Explain SEISO and its benefits.
 - (b) Briefly explain the checkpoints to ensure safe loading of a crane. 5+5=10
- **5.** Enlist any five industrial disasters that occurred in India. Discuss any one of them in detail. *10*
- **6.** Describe the elements of incident investigation forms.
- **7.** (a) Explain the purpose of investigation and analysis.
 - (b) Describe the Functional Resonance and Accident Model. 5+5=10
- **8.** Write short notes on any two of the following: 5+5=10
 - (a) The Domino Theory
 - (b) Engineered Material Handling System
 - (c) Occupational Health Hazards
 - (d) Ergonomics in Industry