P. G. CERTIFICATE IN INDUSTRIAL SAFETY/ POST GRADUATE DIPLOMA IN INDUSTRIAL SAFETY (PGCINDS/ PGDINDS)

Term-End Examination December, 2024

MIS-023: SAFETY IN CONSTRUCTION INDUSTRY

Time: 3 Hours Maximum Marks: 70

Note:(i) Question No. 1 is compulsory.

- (ii) Attempt any **five** questions from the remaining questions (Q No. 2 to 8).
- 1. (A) Choose the most appropriate answer from the given options: $5\times2=10$
 - (a) According to Domino's theory, 88% of the accidents are caused by:
 - (i) acts of God
 - (ii) unsafe conditions
 - (iii) unsafe acts of people
 - (iv) natural forces

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- (b) A safety harness is an equipment which is generally used when a worker is:
 - (i) Working in tunnel
 - (ii) Doing plastering work on a ground floor
 - (iii) Painting on outside wall of a building at height of 20 m
 - (iv) Excavating the foundation of a residential building.
- (c) NSC stands for:
 - (i) National Safety Committee
 - (ii) National Safety Council
 - (iii) National Safety Commission
 - (iv) National Safety Code
- (d) While monitoring air at underground works, which gas is tested first?
 - (i) Oxygen
 - (ii) Methane
 - (iii) Hydrogen Sulphide
 - (iv) Chlorine
- (e) Which class of respiratory equipment is able to provide protection against bacteria and virus?
 - (i) Particle filter class P₁ only

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(ii) Particle filter class P_2 only

			(iii) Particle filter class P_3 only	7	
			(iv) All of the above		
	(B)	Exp	plain the following in brief :	2×5=10	
		(a)	Stock ladder		
		(b)	Safety net		
		(c)	Three principal ways of demostructure	olition of	
		(d)	Scaffolding		
		(e)	Induced collapse		
2.	(a)	Describe the secondary causes of accidents.			
				5	
	(b)		ist the $seven$ basic principles to dents. Explain any two of them	•	
3.	(a)	Des	scribe the safe practices to be	followed	
		dur	ing the use of ladders.	5	
	(b)		cribe various safety measure en while using pulleys.	es to be 5	
4.	(a)	Wh	at is ventilation ? Discuss	different	
		type	es of ventilation.	5	
	(b)	Des brie	cribe accident prevention technol.	niques in 5	
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5.	(a)	Describe the essential features of a good				
		training programme. 5				
	(b)	What are cranes? Describe different types of crane in brief.				
6.	(a)	Describe the waste management process at a construction site. 5				
	(b)	What is demolition? What are the various methods of demolition and risks associated with them?				
7.	(a)	handling. What precautions should be taken by workers while moving materials				
	(b)					
8.	Write short notes on any <i>two</i> of the following:					
		2×5=10				
	(a)	Fire protection in underground works				
	(b)	Multiple causation theory				
	(c)	Roof work safety				

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(d) Types of ladder