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MIS-023

P. G. CERTIFICATE IN INDUSTRIAL SAFETY (PGCINDS)

Term-End Examination December, 2021

MIS-023: SAFETY IN CONSTRUCTION INDUSTRY

Time: 3 Hours Maximum Marks: 70

Note: Question No. 1 is compulsory. Attempt any five more questions from the remaining questions (Q. No. 2 to 8).

- 1. (A) Choose the most appropriate answer from the given options: $5\times2=10$
 - (i) As per the Domino theory of all accidents are caused by unsafe acts of people.
 - (a) 88%
 - (b) 60%
 - (c) 40%
 - (d) 20%

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- (ii) PPE stands for:
 - (a) People's Protection Estimate
 - (b) Project Protection Estimate
 - (c) Personal Protective Equipment
 - (d) Project Proposal Evaluation
- (iii) Which class of respiratory equipment is able to provide protection against bacteria and virus?
 - (a) Particle filter class P₁
 - (b) Particle filter class P₂
 - (c) Particle filter class P₃
 - (d) All of the above
- (iv) While air monitoring at underground works, which gas is tested first?
 - (a) Oxygen
 - (b) Methane
 - (c) Hydrogen Sulphide
 - (d) Chlorine
- (v) It is mandatory to install anti-smog guns when construction and demolition site is larger than:
 - (a) $200 \,\mathrm{m}^2$
 - (b) $2000 \,\mathrm{m}^2$
 - (c) $20 \,\mathrm{m}^2$
 - (d) $20000 \,\mathrm{m}^2$

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(B)	Answer the following questions: 5				
	(i)	Define tunneling.			
	(ii)	Define ventilation.			
	(iii)	Define scaffolding.			
	(iv)	Write the names of 3 R in approach of waste minimization			
	(v)	What are the two categories is the contributory factors of a may be grouped according to causation theory?	accidents		
(a)		cribe the most common ca dents in construction industry.	uses of 5		
(b)	Mention various efforts made in India to ensure safety in construction. 5				
(a)	Describe important precautionary measures to be taken while performing underground activity.				
(b)		cuss various hazards and neling work.	risks in 5		
		e major areas of consideration			
		in underground construction			
training programme. 10					

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5.	(a)	Discuss various types of accidents that occur while working on roof tops and the
		precautions to avoid them. 5
	(b)	Describe various safety aspects to be considered while working on scaffold. 5
6.	(a)	
	(b)	What precautions workers must take while working with slings? 5
7.	(a)	What do you understand by risk assessment? Enlist various steps of risk assessment. Explain any <i>one</i> of them in brief.
	(b)	What is Demolition? What are the various methods of demolition and risks associated with them?
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	<i>(</i>)	2×5=10
	(a)	Benefits of proper safety training
	(b)	Fire protection in underground works
	(c)	Three points contact method for safe use of ladders

(d) Noise and vibration control

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