No. of Printed Pages: 4

MIS-024

POST GRADUATE CERTIFICATE IN INDUSTRIAL SAFETY (PGCINDS)

Term-End Examination

December, 2021

MIS-024 : MECHANICAL AND ELECTRICAL SAFETY MANAGEMENT

Time: 3 Hours Maximum Marks: 70

Note: Attempt six questions in all. Question No. 1 is compulsory.

- 1. (A) Objective type questions: 2 each
 - (i) The objective of earthing or grounding is:
 - (a) to provide as low resistance possible to ground.
 - (b) to provide as high resistance possible to ground.
 - (c) to provide a flow of positive, negative and zero sequence currents.
 - (d) All of the above

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[2] MIS-024

- (ii) Full form of OSHA:
 - (a) Occupational Safety and Health Administration
 - (b) Outcome Services and Health Administration
 - (c) Occupational Safety and Hazards
 Administration
 - (d) Occupational Safety and Health Analysis
- (iii) The very first thing you should do if you are the first to witness or discover an accident on the job site is to:
 - (a) Go and first find at least one coworker to help.
 - (b) Go to the scene and help the injured person(s).
 - (c) Activate the emergency response system.
 - (d) Contact the supervisor to report the incident.
- (iv) The secondary of a current transformer must never be while energized.
 - (a) Grounded
 - (b) Opened
 - (c) Examined
 - (d) Shortened

		[3]	MIS-024			[4]	MIS-024	
	(v)	Decibel (db) is a unit used to measure:		4.	(a)	Write down the different ap	proaches to	
		(a) Sound				improve safety culture in	n chemical	
		(b) Light				industry.	5	
		(c) Frequency			(b)	What are the main precautions	to be taker	
		(d) None of the above				at the time of work at height?		
(B)	Sho	ort answer type questions :	5.	(a)	Make a checklist for safe of	peration in		
	(i)	Write down the various a	areas to be			fireworks manufacturing factor	y. 5	
		safeguard in grinding industry.	n relevant		(b)	What are the various asp considered with respect to the		
	(ii)	Write down the advantage				Work'?	5	
		material handling in industry.		6.	(a)	Discuss various safety tips while working with circuit breakers.		
	(iii)	Explain MTTR and MTBF.						
	(iv)	Why are Antikick-back required in timber industry	v		(b)	What precautions are need followed at the time of testing g		
	(v)	What is the role of circuit	•		Wh	What are the attributes of first aid provider ?		
		devices in electrical safety?	7 ?		Exp	Explain Cardio Pulmonary Resuscitation (CPR		
2. (a) Wh	What precautions are needed to be taken			pro	cess in brief.	10	
	whi	while doing electrical arc welding? 5		8.	Write short notes on any <i>two</i> of the following:			
(b) Dis	Discuss the need of job safety analysis. 5					5+5	
3. (a) Wr	ite down general safety	precautions		(a)	Principle of material handling		
	dur	ing handling of hazardous ch	namicals 5		(h)	Earth leakage protective device	1	

MIS-024

(c) Hazard identification

(b) What are general electrical safety

precautions to be observed in industry? 5