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(a) Accident

Reg. No. :					
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Question Paper Code: 99772

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

Open elective

Civil Engineering

19UME972- INDUSTRIAL SAFETY AND ENGINEERING

(Common to CSE, ECE, EEE, IT, Chemical, Agri, BME, CSBS & Biotechnology)

(Regulations 2019)

Duration: Three hours			Maximum: 10	00 Marks	
		Answer	ALL Questions		
		PART A - ($10 \times 1 = 10 \text{ Marks}$		
1.	•	management if tha hazards from the	t branch of manag e industries.	ement which is	CO1- U
	(a) Reducing	(b) controlling	(c) eliminating	(d) all of th	e above
2.	Bhopal Tragedy ha	appened in the year			CO1- U
	(a) 1972	(b) 1964	(c) 1984	(d) 1974	
3.	Probability of the	event that might occur	X Severity of the eve	ent if it occurs =	CO2- U
	(a) Accident	(b) Hazard	(c) Risk	(d) None of the	above
4.	•	management if that hazards from the	branch of manager e industries.	ment which is	CO2- U
	(a) Reducing	(b) Controlling	(c) Eliminating	(d) All of the a	bove
5.	The primary reason for accident investigation is:				CO3- U
	(a) To identify a so	capegoat	(b) To find fault		
	(c) To take discipl	inary action	(d) To prevent fut	cure accidents	
6.	According to rese		how many near miss	s events occur for	CO3- U
	(a) 50	(b) 100	(c) 150	(d) 300	
7.	Probability of the	event that might occur	X Severity of the eve	ent if it occurs =	CO5- U

(c) Risk

(d) None of the above

(b) Hazard

8.	Iden	ntify the prevention of injuries from occurring at work.		CO5- U
	(a) I	Keeping the workplace tidy (b) Wearing light cloth	ning	
	(c) I	Lifting heavy objects with a bent back (d) Keeping lighting to	minimum	
9.	Indu	ich is	CO6- U	
	(a) I	Reducing (b) controlling (c) eliminating	(d) all of t	he above
10.		e safety month, focusing on key areas to help keep your sloyees healthy and safe is:		CO6- U
	(a) (October (b) November (c) December	(d) Januar	y
		$PART - B (5 \times 2 = 10 Marks)$		
11.	Outl	line any four items in a standard safety inspection check list.		CO1- U
12.	Exp	lain the important features of IS 14489 : 1998.		CO2- U
13.	Exp	lain domino sequence		CO3- U
14.	Exp	lain temporary total disabilities		CO5- U
15.	Exp		CO6- U	
		PART – C (5 x 16= 80 Marks)		
16.	(a)	Examine the functions of Line and Staff organizations regardin safety.	g CO1-	U (16)
	(b)	Or Suppose you were given authority to establish methods accident control in a large manufacturing concern, explain procedures you would set up.		U (16)
17.	(a)	Explain in detail about the perusal of accident and safety record Or	ls CO2-	U (16)
	(b)	Select the procedures to identity the unsafe condition of worker	rs. CO2-	U (16)
18.	(a)	Explain in detail about the accident investigation and analysis Or	CO4-	U (16)
	(b)	Explain in detail about the cost of accident.	CO4-	U (16)
19.	(a)	Explain about permanent total disabilities, permanent partial disabilities and temporary total disabilities. Or	CO5-	U (16)
	(b)	Explain in detail about the lost workday cases incidence (LWDI)	rate CO5-	U (16)

20. (a) Explain in detail about training methods programmes, seminars, CO6-U conferences, competitions for safety education. (16)

Or

(b) Explain in detail about by creating awareness, awards, and CO6-U (16) celebrations to establish safety protocols.