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Reg. No.:					

Question Paper Code: 99772

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Open elective

Civil Engineering

19UME972 - INDUSTRIAL SAFETY AND ENGINEERING

(Common to CSE, ECE, EEE, EIE, IT and Chemical Engineering branches)

(Regulation 2019)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

		PART A - (10	x 1 = 10 Marks				
1.	Industrial safety management if that branch of management which is concerned with hazards from the industries.						
	(a) Reducing (b	o) controlling	(c) eliminating (d) all of the abo				
2.	Standard time is equ	ual to			CO1- U		
	(a) Normal time min	nus allowances					
	(b) Normal time pl	lus allowances					
	(c) Representative time multiplied by rating factor						
	(d) Normal time tal	ken by an operation					
3.	MBO was invented	by			CO2- U		
	(a) Peter Drucker		(b) Koontz & O 'Do	onell			
	(c) Henry Fayol		(c) Henry Fayol				
4.	The end result of ris	sk management is			CO2- U		
	(a) To eliminate dar	nger to the public	(b) To minimize cost to the company				
	(c) To reduce risk to	o an acceptable level	(d) None of the	above			
5.	Which of the following is the primary reason for accident investigation?				CO3- U		
	design?						
	(a) To identify a sca	npegoat	(b) To take disc	ciplinary action			

	(c) To prevent future accidents			(d) None of the above					
6.	Whice design		lowing factors is	s not important in orga	nizatio	on C	O3- U		
	(a) E	nvironment (1	b) strategy (c) i	information relationships	(d)	technology			
7.		ch of the following ect you from expos		res must your training inc chemicals?	clude, t	o C	04- U		
	(a) Appropriate work practices (b) Emergency proce					edures			
	(c) P	(c) Personal protective equipment (d) All of the above							
3.	Acco	ording to Herzberg,	which of the foll	owing is a maintenance f	actor?	C	04- U		
	(a) S	alary (b) w	ork itself	(c) responsibility	(d)	recognition			
9.	Prote	ection of organizati	onal facilities and	l employees is called		C	O5- U		
	(a) A	dverse situation	(b) Security	(c) Safety	(d)	Health			
10.	A pro	oduct layout is gen	erally preferred fo	or		C	O5- U		
	(a) B	atch production		(b) continuous typ	e of pr	oduction			
	(c) e	ffective machine ut	tilization ratio	(d) all of the abov	e				
			PART – B (5 x 2= 10 Marks)					
11.	. Explain the modern safety concept of evaluation.						CO1- U		
12.						CO2-U			
13.	3. Define accident					CO3- U			
14.	Explain about incident rate					CO4- U			
15.	5. Enlist the six basic steps of journey to Safety Culture Excellence.					CO5- U			
			PART – C	C (5 x 16= 80 Marks)					
16.	(a)	Examine the function safety.		Staff organizations regard	ding	CO1- App	(16)		
	(b)		n a large manufac	to establish methods for cturing concern, explain t	he	CO1- App	(16)		
17.	(a)	Analyse safety au	dit in details that Or	follow in an Automobile	plant.	CO2-App	(16)		
	(b)	Analyse the wor shop floor.	kers unsafe acts	and unsafe conditions	in the	CO2-App	(16)		

18. (a) Apply the accident, incident, near miss and dangerous occurrence CO3- App (16)reporting procedures Or Identify the principles of accident prevention. (b) CO3- App (16)19. (a) Interview about the major hazards occurred in Indian industries in CO4- App (16)the recent years. Or Build detailed explanation about Permanent Partial Disability. (b) CO4- App (16)Identify about the principles of safety training, problem CO5-App 20. (a) (16)identification and problem analysis. Or Choose the safety incentive scheme and rewards and give your CO5- App (b) (16)

suggestion to implement at anyone fireworks industry.