A	Reg. No. :								
Question Paper Code: 99772									
B.E./B.Tech. DEGREE EXAMINATION, MAY 2022									
Open elective									
	Civil En	gineering							
	19UME972 - INDUSTRIAL S	AFETY AND EN	IGINEI	ERINC	í				
	(Common to CSE, ECE, EEE, EIE, IT	and Chemical E	ngineer	ing br	anch	es)			
	(Regulat	ion 2019)							
Dura	ation: Three hours	Ν	Maximu	m: 100	) Ma	rks			
	Answer AL	L Questions							
	PART A - (10	x 1 = 10 Marks)							
1.	Industrial safety management if that branch of management which is CO1- R concerned with hazards from the industries.								
	(a) Reducing (b) controlling	(c) eliminating		(d) al	ll of 1	the a	bove		
2.	Standard time is equal to						CO1- R		
	(a) Normal time minus allowances								
	(b) Normal time plus allowances								
	(c) Representative time multiplied by rating	g factor							
	(d) Normal time taken by an operation								
3.	MBO was invented by						CO2- R		
	(a) Peter Drucker	(b) Koontz &	z O 'Do	nell					
	(c) Henry Fayol	(c) Henry Fag	yol						
4.	The end result of risk management is						CO2- R		
	(a) To eliminate danger to the public	(b) To m	ninimize	e cost f	to the	e con	npany		
	(c) To reduce risk to an acceptable level (d) None of the above								
5.	. Which of the following is the primary reason for accident investigation?						CO3- R		
	design?								
	(a) To identify a scapegoat	(b) To ta	ake disc	iplinar	y act	tion			
	(c) To prevent future accidents	(d) None	e of the	above					

6.	. Which one of the following factors is not important in organization design?						
	(a) Environment (b) strategy (c) information relationships (d) technology						
7.		Which of the following specific procedures must your training include, to CO4- R protect you from exposure to hazardous chemicals?					
	(a) Appropriate work practices (b) Emergency procedures						
	(c) P	ersonal protective equipmer	nt (d) All of the a	bove			
8.	Acco	ording to Herzberg, which o	f the following is a maintenance fa	g is a maintenance factor? CO4- R			
	(a) S	alary (b) work itself	(c) responsibility	(d) recognition			
9.	Prote	rotection of organizational facilities and employees is called CO5-1					
	(a) A	Adverse situation (b) Sec	curity (c) Safety	(d) Health			
10.	A pr	oduct layout is generally pre	eferred for	CO5-R			
	(a) E	Batch production	e of production				
	(c) e	ffective machine utilization					
		PAI	RT – B (5 x 2= 10 Marks)				
11.	1. Explain the modern safety concept of evaluation.			CO1- U			
12.	2. Explain the types of safety auditing that are perform in the company.			ny. CO2-U			
13.	Define accident CO3- U						
14.	Explain about incident rate CO4- U						
15.	Enlis	st the six basic steps of journ	CO5- U				
		P.	ART – C (5 x 16= 80 Marks)				
16.	(a)	Examine the functions of J	Line and Staff organizations regard	ding CO1- App (16)			
		safety.					
	(b)	safety.	Or uthority to astablish mathada for				
	(b)	safety. Suppose you were given a accident control in a large	uthority to establish methods for manufacturing concern, explain th	CO1- App (16)			
		safety. Suppose you were given a accident control in a large procedures you would set	uthority to establish methods for manufacturing concern, explain th up.	CO1- App (16)			
17.	(b) (a)	safety. Suppose you were given a accident control in a large procedures you would set	uthority to establish methods for manufacturing concern, explain th	CO1- App (16)			

18. (a) Apply the accident, incident, near miss and dangerous occurrence CO3- App (16) reporting procedures

## Or

## (b) Identify the principles of accident prevention. CO3- App (16)

19. (a) Interview about the major hazards occurred in Indian industries in CO4- App (16) the recent years.

Or

- (b) Build detailed explanation about Permanent Partial Disability. CO4- App (16)
- 20. (a) Identify about the principles of safety training, problem CO5- App (16) identification and problem analysis.

## Or

(b) Choose the safety incentive scheme and rewards and give your CO5- App (16) suggestion to implement at anyone fireworks industry.