A		Reg. No. :								
Question Paper Code: 59772										
B.E./B.Tech. DEGREE EXAMINATION, MAY 2022										
	Open elective									
		Civil E	Ingineerir	ıg						
	15UME9	72 - INDUSTRIAL	SAFETY	AND E	NGIN	JEEF	RINC	ť		
(Common to CSE, ECE, EEE, EIE, IT and Chemical Engineering branches)										
(Regulation 2015)										
Dur	ration: Three hours			]	Maxi	mum	n: 100	) Ma	rks	
		Answer A	LL Ques	tions						
		PART A - (10	$0 \ge 1 = 10$	Marks)						
1. In time study, the rating factor is applied to determine								CO1- R		
	(a) standard time of a	job		(b) mer	it rati	ng o	f the	worl	<i>cer</i>	
	(c) fixation of incentiv	ve rate		(d) norr	nal ti	me o	of a w	vorke	er	
2.	Standard time is equa	l to								CO1- R
	(a) Normal time minu	s allowances								
	(b) Normal time plus	s allowances								
	(c) Representative time multiplied by rating factor									
	(d) Normal time take	n by an operation								
3.	MBO was invented by	У								CO2- R
	(a) Peter Drucker		(b)	Koontz &	άΟʻ]	Done	ell			
	(c) Henry Fayol		(c)	Henry Fa	yol					
4.	The end result of risk	management is								CO2- R
	(a) To eliminate dang		(b) To minimize cost to the company							
	(c) To reduce risk to a	in acceptable level		(d) Non	e of t	he al	bove			

5.	Which of the following is the primary reason for accident investigation?					tion?	CO3- R		
	design?								
	(a) T	o identify a scapeg	begoat (b) To take disciplinar			ciplinary action			
	(c) T	o prevent future ac	cidents	(d) None of the above					
6.	Whic desig		lowing factors is	not important	not important in organization CO3				
	(a) E	nvironment (	b) strategy (c) is	nformation relati	ionships	(d) technolog	y		
7.	Which of the following specific procedures must your training include, to CO4- R protect you from exposure to hazardous chemicals?							4- R	
	(a) A	(a) Appropriate work practices (b) Emergency pro-			procedures				
	(c) Personal protective equipment (d) All of the above				oove				
8.	According to Herzberg, which of the following is a maintenance factor?						CO	4 <b>-</b> R	
	(a) S	alary (b) w	ork itself	(c) responsibi	lity	(d) recogniti	on		
9.	Prote	ection of organizati	onal facilities and	employees is ca	lled		CO	5- R	
	(a) A	dverse situation	(b) Security	(c) Safety		(d) Health			
10.	A pr	oduct layout is gen	erally preferred fo	or			CC	)5-R	
	(a) Batch production (b) continuous type of				of production	fproduction			
	(c) effective machine utilization ratio (d) all of the above								
			PART – B (S	5 x 2= 10 Marks)	)				
11.	. How the modern safety concept is evolved ?				(	CO1- U			
12.	Definitions of MBO				(	CO2-U			
13.	Define institutional bio safety committee.			(	CO3- U				
14.	What is meant by Brain Storming?			(	CO4- U				
15.	What are the requirements for effective control?			CO5- U					
			PART – C	(5 x 16= 80 Ma	rks)				
16.	(a)	Analyze the histo	ry of safety move	ment in india		CO1- A	na	(16)	
	Or								
	<ul> <li>(b) Illustrate how safety committee meeting is arranged and conducted and prepare sample minutes of the safety committee meeting conducted.</li> </ul>					CO1- A	na	(16)	

17.	(a)	Mention and explain the steps in planning process with neat diagram	CO2-Ana	(16)					
		Or							
	(b)	Illustrate the Fault tree Analysis procedure with an example.	CO2-Ana	(16)					
18.	(a)	Explain the nature and purpose of an organization Or	CO3- U	(16)					
	(b)	Name the factors determining departmentation. Mention the bases of departmentation and give examples.	CO3- U	(16)					
19.	(a)	Explain how motivation helps an organization to improve productivity?	CO4- U	(16)					
	Or								
	(b)	Explain the EMS models with Case Studies.	CO4- U	(16)					
20.	(a)	Explain the steps in the process of controlling. Or	CO5- U	(16)					
	(b)	Define the role of government agencies and private consulting agencies in safety training DGFASLI.	CO5- U	(16)					