		Reg. No. :										
<b>Question Paper Code: 59772</b>												
B.E./B.Tech. DEGREE EXAMINATION, DEC 2020												
Open elective												
		Civil E	ngineerii	ng								
	15UME	972 - INDUSTRIAL	SAFETY	ANI	) EN	GIN	EER	INC	j			
	(Common to C	SE, ECE, EEE, EIE ,l	T and C	hemic	al En	gine	eerin	g bra	anch	es)		
		(Regula	tion 201	5)								
Duration: 1.15 hrs Maximum: 30							30 N	<b>A</b> ark	S			
		PART A - (6	x 1 = 6	Mark	s)							
		(Answer any six of t	he follov	wing o	questi	ions	3)					
1.	The type of layout used for manufacturing steam turbines, is								CO	1- R		
	(a) Product layout (b) process layout											
2.	(c) fixed position layout			(d) any one of these								
	Standard time is equal to						CO	1- R				
	(a) Normal time minus allowances											
	(b) Normal time plus allowances											
	(c) Representative time multiplied by rating factor											
3.	(d) Normal time taken by an operation											
	The cost of a product change to correct safety defects is greatest							CO	2- R			
	(a) After the product has been manufactured and installed											
	(b) After the product has been patented											
4.	(c) During the manufacturing phase											
	(d) During the design phase											
	The end result of risk management is								CO	2- R		
	(a) To eliminate danger to the public (b) To minimize cost to the						cor	npan	y			
	(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? design?								
	(a) To identify a scapegoat	(b) To take discip	plinary action						
	(c) To prevent future accidents	(d) None of the a	bove						
6.	JSEAs add environmental concerns such a formula.	s int	o the C	O3- R					
	(a) Weather (b) Importance	(c) Time	(d) Ease						
7.	Which of the following specific procedures must your training include, to protect you from exposure to hazardous chemicals?								
	(a) Appropriate work practices	(b) Emergency p	rocedures						
	(c) Personal protective equipment	(d) All of the abo	ove						
8.	Which of the following data is not required	C	O4- R						
	(a) Land use (b) Contaminant levels	(c) Affected population	(d) Estimation of	of risk					
9.	Protection of organizational facilities and en	C	O5- R						
	(a) Adverse situation (b) Security	(c) Safety	(d) Health						
10.	Gantt chart provides information about	C	CO5-R						
	(a) Production schedule	(b) Inventory control							
	(c) Material handling	(d) Material handling	•						
	PART – B (3 x 8= 24 Marks)								
	(Answer any three o	f the following question	s)						
11.	How employee can be motivated so as to we	CO1- Ana	(8)						
12.	Identify the practical use of Preliminary Ha	CO2-Ana	(8)						
13.	Explain in detail about role of Safety comm	e CO3- U	(8)						
14.	Explain the General risk-management princ	CO4- U	(8)						
15	Explain Scope and Objectives of Training and Education. CO5-								