Name: Enroln	ient No:						
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		UNIVERSITY OF					
		End Semes	ter Examination, D	ecember 2	2021		
Course	Nomes Eine Diels	& Control	Semester: I		Some	aton	
Course Name: Fire Risk & ControlSemester:Programme: M Tech- HSE/ HSE spl with DMTime: 03 HoursCourse Code: HSFS 7007Max. Marks: 100							
course		1	SECTION A		1VIU.	. marks. 100	
1 Each	Question will carr	v 4 Marks	SECTIONA				
			correct answer(s)				
Sr.	struction: Complete the statement / Select the correct answer(s) Question						CO
No.		<i>Current</i>					
Q 1	List out the various factor over which heat release rate is going to be dependent on.						CO1
Q 2	Distinguish detonation and deflagration with one example.						CO2
Q 3	Discuss fire enclosure temperature in a building or compartment.						CO1
Q 4	Brief fire duration or time of burning and show how it is related with mass loss rate.						CO1
Q 5	List out the purpose of calculating fire load at workplace.						CO2
			SECTION B				
	question will carry						
	ruction: Write short / brief notes						CO1
Q 6	Explain in detail of hose and their types. Also, discuss about the construction of hoses.						
	D:	4 f fine al	OR their challen and				
0.7	Discuss various stages of fire along with their challenges.						
Q 7	Create an inspection checklist for verifying the functional requirements and efficacy of sprinkler system in a high-rise building.						CO5
Q 8	Discuss the various factors effecting fire or combustion process.						
Q 9	Explain the purpose of providing stand pipes. List out their types and brief the Class II & Class I						CO1 CO2
Q)	standpipes.						002
	Standpiptos		SECTION C				
1. Each	Question carries 2	0 Marks.					
	action: Write long						
Q 10	(a) For a building compartment of dimension 20 m wide, 20 m deep and 4 m high and contains						
	15000 kg of combustible material, if the area of the open window is 72 m2 and height of						
	opening is 1.2. Calculate the maximum temperature and time equivalent for fire severity.						
	(b) Being a fire safety assessor, identify and analyse the work place challenges (administration prospective) in implementation of fire safety requirements at workplace.						
	(a) Explain	various avalasion proto	OR otion principle and f	hair affactiv	vonoss		
	(a) Explain various explosion protection principle and their effectiveness.(b) A manufacturing process industry uses the following material. Calculate the fire load by using						CO3
	the following data: -						005
	Material	Quantity in Kg.	Area in Sq. mtr.	Calorific	value		
		C D D D D D D D D D D	·	(KJ/Kg)	(Kcal/kg)		
	Paper	100	100	15650	3725.38		
	Wood	2000	300	17500	4179		
	Coal	10000	500	20000	4776		
	Rubber	500	200	40000	9552		
	Petroleum	5000	400	43000	10268.4		
	products						
Q 11		nce of Heat Release Ra					