4		-				
1	N	а	-	n	ρ	
	7	•			•	•

Enrolment No:



UPES

End Semester Examination, December 2024

Nos. of page(s): 1

Instructions: Read the question properly and give the most relevant answer.

SECTION A (5Qx4M=20Marks)

S. No.	(· L · · · · · · · · · · · · · · · · · · ·			
		Marks	CO	
Q 1	Recall you understanding on flammability range of gas.	4	CO1	
Q 2	Explain Fire suppression theory with sketch.	4	CO2	
Q 3	Analyze and classify the term Smoke	4	CO4	
Q 4	Write the ill effects of Carbon di oxide and carbon monoxide.	4	CO3	
Q 5	Outline your understanding about the term Fire rating.	4	CO4	
	SECTION B		1	
	(4Qx10M=40 Marks)			
Q 6	With illustrations write about the different stages of fire in detail.	10	CO1	
Q 7	Analyze and explain the different types of fire sprinkler system	10	CO4	
Q 8	Classify flammable and combustible liquids as per NFPA standard	10	CO3	
Q 9	Explain the method of fire extinguishment in cooking oil fire at kitchen and fire in an electrical transformer with proper justification of extinguishment. (OR) Prepare a write up on fire retardant coatings with example.	10	CO3	
<u> </u>	SECTION-C			
	(2Qx20M=40 Marks)			
Q 10	Explain in detail. a) Active fire protection system and passive fire protection system with examples b) Importance of fire lead calculation and its method of calculation	(10+10) 20	CO2	
	 b) Importance of fire load calculation and its method of calculation (OR) c) Explain the combustion phenomena of solid, liquid and gases with a example of each in detail. 	ith a 20		
Q11	Explosion has made numerous destructions around the world as a fire safety engineer can you explain the different types of explosions in detail.	20	CO4	