Name: Enrolment No:		14	S	
		UNIVERSITY OF TO	MORROW	
		UPES		
		xamination, May 2023	_	
Course: Safety in Industrial Operations and Design			Semester: II	
Program: M.Tech-Health Safety and Environment Course Code: HSFS 7006 N			Time : 03 hrs. Max. Marks: 100	
	ctions: Read the question properly and gi		Iviax. Iviarks:	100
	SEG	CTION A M=20Marks)		
S. No.	(* 2	· · · · · · · · · · · · · · · · · · ·	Marks	СО
Q 1	Explain the use of knock out drum in flaring system		4	CO2
Q 2	Examine the reasons that make Ammonium nitrate explode		4	CO3
Q 3	Define thermal heat stress.		4	CO1
Q 4	List the principles of material handling		4	CO1
Q 5	Differentiate Fall restraint and fall arrestor		4	CO3
		CTION B		
		M= 40 Marks)	1	
Q 6	Discuss the hazards and safe operating pro-	ocedure of heat exchanger	10	CO1
Q 7	Explain the different layouts followed in engineering industry with possible pictorial illustration.		10	CO2
Q 8	Lighting is very important in prevention of accident in industry, can		10	CO4
0.0	you prepare a study material for your company on the importance			001
Q 9	Classify different hazards in fork lift operation. (Or)			
	Ladder is widely used in industries and lot of accidents have reported, as		s 10	CO3
	a safety engineer can you explain the hazards and safe procedures to be			
	followed while using ladder.			
		CTION-C M=40 Marks)		
Q 10	a) Reactor operations had caused h		1	
	industries around the world, can you analyze the reactor operation			CO4
	and elaborately discuss the various causes for the reactor failure.			
Q 11	a) As a lifting tackle specialist can you classify various types of			
	ropes, its configuration, its reason for failure and its safe handling		5	
	methods in detail.		20	CO2 &
	(Or) b) You are going to start an Automobile manufacturing industry, can			CO3
	you select a relevant location justifying various factors your			
	considered that will make it a prof			