## P P SAVANI UNIVERSITY

## Sixth Semester of Department of Chemical Engineering May 2022

## SECH3080 Industrial Safety and Hazard Analysis

26.05.2	022, Thursday	Time: 09:00 a.m. To 11:30a.m.	Maximum Marks: 60
Instructi			
	uestion paper comprises		
2. Section	on I and II must be attem	oted in same answer sheet.	
J. Make	suitable assumptions an	d draw neat figures wherever required.	ment of the state of the best
4. Use of	f scientific calculator is a	iowea.	
		SECTION - I	
Q-1	Answer the Following	g: (MCQ/Short Question/Fill in the Blanks)	[05]
(i)	Full form of MSDS		AS A PERSON NAMED OF THE PROPERTY OF THE PROPE
	a. Mechanical Sa	fety Data Sheet	/
	b. Material Safet		
		rity Data Sheet	
		curity Design Sheet	
(ii)	Accident can be		
. ,	a. Prevented		
	b. Measured		
	c. Calculated		
	d. None of above	Approximation of the second of	
(iii)	EMS can be written in	another way	
()	a. ISO 9001:201		
	b. ISO 14001:20		
	c. ISO 45001:20		
	d. ISO 22001:20		
(iv)	One "E" for accident p	revention is	
	a. Election		
	b. Enforcement		
	c. Electricity		
	d. Elasticity		
(v)	Full Form of ETA		
	a. Environment	Гесhnology Advantage	
	b. Event Technol	ogy Analysis	
	c. Event Tree An	alysis	
	d. Event Tree Ad	vantage	
Q - 2 (a)	Brief about various ty	pes of hazard in chemical industry.	[05]
Q - 2 (b)	What is direct cost an	d indirect cost in view of accident?	[05]
		OR	
Q - 2 (a)	Give reasons for accid	ent prevention	[05]
		•	[03]

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Q - 3 (a) Define Philosophy of accident causation Q - 3 (b) Give Classification of fire and extinguishers  OR	[05] [05] [05]
OR	[05]
Q - 3 (a) Define frustrating situations and remedial measures	[05]
Q - 3 (b) Give methods for motivation	
Q-4 Attempt any one/two.	[05]
(i) How to build psychological safety at workplace?	
(ii) Define Incident.	
SECTION - II	
<ul> <li>Q-1 Answer the Following: any five</li> <li>(i) Give content of fire triangle.</li> <li>(ii) Give full form of SOP.</li> <li>(iii) When Bhopal Gas Disaster was occurred?</li> <li>(iv) How biological hazards enter in the body?</li> <li>(v) What is BBS? (Full Form)</li> </ul>	[05]
Q - 2 (a) Define Unsafe Act with example. Q - 2 (b) What is event tree Analysis?	[05] [05]
OR	[o3]
<ul> <li>Q - 2 (a) Define Risk Control Measures</li> <li>Q - 2 (b) Describe features of MSDS (Material Safety Data Sheet).</li> <li>Q - 3 (a) Cause of fire and its remedial measure.</li> <li>Q - 3 (b) Hazards and Precautions of Remote operated Lifting Machines</li> </ul>	[05] [05] [05]
Q - 3 (a) Describe Environment Management system Q - 3 (b) Define Philosophy of accident causation Q - 4 Attempt any one/two. (i) Methods to eliminate boredom and monotony from industry (ii) Routes of Entry (Avenues) of toxic chemicals to Human System	[05] [05] [05]