P P SAVANI UNIVERSITY

Seventh Semester of B. Tech. Examination November 2022

SECH4540 Industrial Health & Safety Engineering

01.12.2022, Thursday Time: 10:00 a.m. To 12:30 p.m.

Maximum Marks: 60

Instructi	ione,		A L. Med I	13.00
2. Section	nuestion paper comprises of two sections.			
3. Make	on I and II must be attempted in separate answer sheets.			
4 Use o	suitable assumptions and draw neat figures wherever required. f scientific calculator is allowed.			
. 0500	r selentific calculator is allowed,			
	GT GTT CO.			
Q-1	Discuss the list of D			
Q-2(a)	Discuss the list of Pre-commissioning Documents.	[05]	CO	BTL
	Discuss the basics of reactor safety.	[0,5]	2	2
Q - 2 (b)	Write about Types of compressed air required in plant.	[05]	1	4
	OR	[]	-	-
Q - 2 (a)	Explain defects and failure revealed by inspection of for pressure vessels.	[05]	2	2
Q - 2 (b)	Elaborate: Brief about Commissioning Problems.			2
Q-3(a)	Write about conditioning monitoring.	[05]	2	2
Q-3(b)	Explain the Operation at extremes of pressure and temperature.	[05]	2	3
	OR	[05]	2	2
Q - 3 (a)				
2 - 3 (b)	Write in details about non-destructive testing and monitoring methods	[05]	3	5
) - 4	Write in details about valves in pipework system.	[05]	2	2
5-4	Write briefly on type of reactors.	[05]	1	5
0 1	SECTION - II			
Q-1	Discuss: List of Principal protective devices	[05]	2	2
Q - 2 (a)	Brief about Hydrogen storage.	[05]	2	6
Q - 2 (b)	Define Permit to Work system.	[05]	3	4
	OR .	[oo]	3	4
Q - 2 (a)	Brief about LNG storage.	[05]	1	4
(2 - 2 (b))	Write in details about Gas freeing & cleaning of tanks		1	1
2 - 3 (a)	Write about storage hazard.	[05]	2	2
2 - 3 (b)	Brief about types of storage tanks and vessels for liquids and liquefied gases.	[05]	2	2
	OR	[05]	3	1
2 - 3 (a)	Explain Classification of confined space.			
2 - 3 (b)	Filling arrangements and connection in the state of the s	[05]	1	2
Q-4	Filling arrangements and connection in view of loading and unloading facilities.	[05]	1	6
4 1	Events leading to storage tank failures.	[05]	4	2

	CO Course Outer N. J.			

CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply	
4: Analyze	5: Evaluate	6: Create	