Seat No.: Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY						
BE - SEMESTER-IV(NEW) EXAMINATION – WINTER 2022 Subject Code:3140509 Date:13-12-202						
•			2-2022			
Subject Name:Pollution control & safety Management Time:10:30 AM TO 01:00 PM Total Marks:70						
Instructions:						
		Attempt all questions.				
		Make suitable assumptions wherever necessary.				
	_	Figures to the right indicate full marks.				
	4.	Simple and non-programmable scientific calculators are allowed.	MARKS			
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Q.1	(a)	1	03 04			
	(b) (c)		04 07			
	(c)	in detail.	07			
Q.2	(a)	Describe features of factory act.	03			
~ ·-	(b)	•	04			
	(c)		07			
		environment.				
		OR				
	(c)	What is Safety Audit? Explain the procedure to carry out safety audit in any chemical unit.	07			
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Q.3	(a)	•	03			
	(b)		04			
	(c)	Explain Fault tree analysis method with meaning of all Symbols and GATES in detail.	07			
		OR OR				
Q.3	(a)	_	03			
Q.C	(4)	Process Industry.	00			
	(b)	•	04			
	(c)	Discuss various equipments used to separate the particulate matters from	07			
		the effluent gases to avoid air pollution.				
Q.4	(a)	Explain industrial hygiene.	03			
	(b)	Explain source model of flow of liquids through pipes.	04			
	(c)	Discuss Off –site and On-site emergency planning with its importance.	07			
_		OR				
Q.4	(a)	e · · · · · · · · · · · · · · · · · · ·	03			
	(b)		04			
	(c)	Discus different types of Safety Permit. Discus its content and validity.	07			
Q.5	(a)	Explain management and disposal of hazardous waste.	03			

		OR	
Q.5	(a)	Define Cleaner Production.	03
	(b)	Enlist the benefits of CP.	04
	(c)	Explain six step methodology of CP.	07

(b) What are the various health provisions mentioned in factories act, 1948?

(c) Explain the following terms as per Industrial Dispute Act: a) Wages b)

Industry c) Employer.

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