GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION - SUMMER 2025

Subject Code:3140509			Date:08-05-2025	
Subject Name: Pollution control & safety Management				
Time: 10:30 AM TO 01:00 PM Total N			Total Marks:70	
Instructions:				
		Attempt all questions.		
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
		Simple and non-programmable scientific calculators are allowed.		
Q.1	(a)	Differentiate the term COD and BOD with its significance.	03	
	(b)		04	
	(c)	What do you understand by Fixation of Nitrogen? Describe neat diagram of Nitrogen cycle.	with 07	
Q.2	(a)	1 1	03	
	(b)	* · · · · · · · · · · · · · · · · · · ·	04	
	(c)	Incineration.	g and 07	
		OR		
	(c)	Explain various cleaner production practices adopted by Chellindustries.	mical 07	
Q.3	(a)	Write public health aspects due to solid waste.	03	
	(b)	•	04	
	(c)	Describe primary, secondary and tertiary wastewater treatments OR	s. 07	
Q.3	(a)		03	
	(b)	•	04	
	(c)	Discuss about the fire extinguishing agents used in fire extinguishing	isher. 07	
Q.4	(a)	Sources and classification of water pollutants.	03	
	(b)	Differentiate UVCE and BLEVE.	04	
	(c)	Explain with neat diagram of Gravity settling chamber and Cyc separator.	lone 07	
		OR		
Q.4	(a)	What is principles of Green chemistry?	03	
	(b)	1 1 0	04	
	(c)	Explain importance of pollution control and safety management chemical industry.	ent in 07	
Q.5	(a)	Write effects of pollution in environment.	03	
	(b)	What is DOW index? Give its importance in chemical industrie	es. 04	
	(c)	Enlist the technique used for hazard identification. Explain HA method in detail.	AZOP 07	
		OR		
Q.5	(a)		03	
	(b)		04	
	(c)	Describe standards and legislation of EIA and EIS.	07	
