		GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – I • EXAMINATION – WINTER • 2013		
•		de: 711702N Date: 26-12-2013 ame: Environmental Chemistry	}	
Time: 10.30 am – 01.00 pm Total Marks:			' 0	
Instr	uctio	ns:		
	2. M	ttempt all questions. Take suitable assumptions wherever necessary. gures to the right indicate full mark.		
Q.1	(a) (b)	Discuss Le-Chatelier's principle Using suitable illustration. Discuss the Dalton's law of partial pressures and compare it with Henry's Law.	07 07	
Q.2	(a) (b)	Write a note on activity and activity coefficient. What is meant by order of reaction? Derive an expression for the rate of constant of a second order reaction. OR	07 07	
	(b)		07	
Q.3	(a)	What is Reverse Osmosis? How is sea water purified using this techniques?	07	
	(b)	Write a Short note on "Dialysis". OR	07	
Q.3	(a)	Write a short note on "Solvent Extraction Electrochemistry".	07	
	(b)	What is Buffer solution? Explain buffer actions using suitable examples.	07	
Q.4	(a)		07	
	(b)	Discuss the properties of an organic compounds. OR	07	
Q.4	(a)	Write short note on "Soil Pollution".	07	
Q.4	(b)	Enlist the different types of fertilizers and discuss its environmental impact.	07	
Q.5	(a)	What is pH and pH scale? Describe different methods used for measurement of pH.	07	
	(b)	Hardness.	07	
0.5	(5)	OR Evaloin the principle and working of spectrophotometer with post	07	
Q.5	(a)	diagram.		
	(b)	Write short note on "Gas Chromatograph".	07	

Enrolment No.____

Seat No.: _____
