Enrol	lment	No
Lino	mont	110

## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-IV EXAMINATION – SUMMER 2016

	Subject Code:141302		Date:03/06/2016	
r	Time	ect Name:Environmental Sciences-II :10:30 AM to 01:00 PM ections:	Total Marks: 70	
ļ	liistru	<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>		
Q.1	(a) (b)	Explain the kinetic approach of Chemical equilibrium. Explain Ionization of weak acids with examples.		07 07
Q.2	(a) (b)	Explain phenomena of Common Ion effect with suitable exam Write a short note on Binary mixtures. <b>OR</b>	ples.	07 07
	<b>(b</b> )	How will you determine Oil and Grease in laboratory?		07
Q.3	(a) (b)	Differentiate between BOD and COD. Write short note on Osmosis.		07 07
Q.3	(a) (b)	<b>OR</b> How dilution water for BOD test is prepared in laboratory. Explain Complex Ion formation with suitable examples.		07 07
Q.4	(a) (b)	Explain working principle of COD determination with example Explain Dialysis with neat sketch.	les.	07 07
Q.4	(a) (b)	<b>OR</b> Write short note on Biodegradation of Organic compounds. Write down the sources of Acidity in Water and Wastewater.		07 07
Q.5	(a) (b)	Explain Solubility products with suitable examples. Explain the principle of Solvent Extraction. <b>OR</b>		07 07
Q.5	(a) (b)	Explain environmental significance of Solids. Explain modified Winkler method for DO determination.		07 07

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