Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER-IV (New) EXAMINATION - WINTER 2015** 

Subject Name: Environmental Science-II		Date:30/12/2015	
		Total Marks: 70	
Q.1	(a) (b)	Explain Ionization of weak acids with examples. Explain general properties of Colloids.	07 07
Q.2	(a) (b)	Explain environmental significance of Solids. Explain Dialysis with neat sketch.	07 07
	<b>(b)</b>	OR How will you determine Oil and Grease in laboratory?	07
Q.3	(a) (b)	How dilution water for BOD test is prepared in laboratory. Write a short note on Osmosis.  OR	07 07
Q.3	(a) (b)	Explain the kinetic approach of Chemical equilibrium. Explain Complex Ion formation with suitable examples.	07 07
Q.4	(a) (b)	Write a short note on Binary mixtures. Write down the sources of Acidity in Water and Wastewater.  OR	07 07
Q.4	(a) (b)	Explain phenomena of Common Ion effect with suitable example Explain working principle of COD determination with example	
Q.5	(a) (b)	Explain Solubility products with suitable examples.  Write a short note on Biodegradation of Organic compounds.  OR	07 07
Q.5	(a) (b)	Differentiate between BOD and COD.  Explain modified Winkler method for DO determination.	07 07

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