Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

	Sub	oject Code: 131301 Date: 20-12-2014	
	Sub	oject Name: Environmental Science - I	
		ne: 02.30 pm - 05.00 pm Total Marks: 70 ructions:	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b)	Explain application of Henry's law in Environmental Engineering field. Write a short note on Familiarization of Laboratory.	0' 0'
Q.2	(a) (b)	Differentiate between Gravimetric analysis and Volumetric analysis. Write a short note on Standard Methods used in analytical work. OR	0′ 0′
	(b)	Explain the Dalton's law in detail.	0'
Q.3	(a) (b)	What is the importance of Calibration of glass wares and instruments? Write a short note on Zeolite Method for removal of Hardness. OR	0′ 0′
Q.3	(a) (b)	Differentiate between Norman solution and Molar solution. How will you determine TS, TDS and TSS from wastewater?	0′ 0′
Q.4	(a) (b)	Differentiate between Primary standards and Secondary standards. Write a short note on Carbonate Hardness and Non-Carbonate Hardness. OR	0′ 0′
Q.4	(a) (b)	Write a short note on Kjeldah Method. What are the causes and sources Hardness?	0' 0'
Q.5	(a) (b)	Determine the pH of (i) 0.02 N HCL, (ii) 0.02 N H ₂ SO ₄ Write a short note on Conductivity Meter.	0′
Q.5	(a) (b)	Write a short note on Nephelo Turbidity Meter. Explain Mohr's Method for determination of Chlorides.	0′ 0′
