GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- III (NEW)EXAMINATION – SUMMER 2015

Subject (ject Code:2131301 Date: 27/05/2015	
Subject I	Name: Environmental Science I	
	Time:02.30pm-05.00pm Total Marks	
Instruction		
1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	
	Figures to the right indicate full marks.	
Q.1(a)		07
(b)	Write a note on conductivity meter with neat & clean diagram.	07
Q.2(a)	Write uses of following glass wares.	07
	(i)measuring cylinder(ii)pipette(iii)Burette(iv)Desiccator(v)Test tube(vi)Reagent bottle(vii)Air condenser	
(b)	OR	07
(b)	Write a note on Zeolite method for removal of Hardness with Chemical reactions.	07
Q.3(a)	field. Also determine pH of following solution.(i)0.02N HCl(ii)0.02M HCl (iii)0.02N H ₂ SO ₄ (iv) 0.02M H ₂ SO ₄	07
(b)	OR	07
Q.3(a) (b)		07 07
Q.4(a) (b)		07 07
	OR	
Q.4(a) (b)	What is pH scale? Describe the procedure of calibration of pH meter. Explain Henry's Law & Dalton's Law.	07 07
Q.5(a)	Explain oxidation-reduction method in volumetric analysis with suitable example.	07
(b)	Discuss precipitation titration and Mohr's method. OR	07
Q.5(a)	(ii)750ml 0.5MHCl from given 17 N HCl solution.	07
(b)	With neat & clean diagram explain Distillation process.	07
