GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2016				
Subject Code:2151302 Date:21/05/2016				
Subject Name:Advanced Environmental Instrumentation Time:02:30 PM to 05:00 PM Total Mari Instructions:			ss: 70	
	1. 2. 3.			
Q.1	(a) (b)	What is Advanced Environmental Instrumentation? What is its Importance? Write the working principle of Flame Photometer.	07 07	
Q.2	(a) (b)	Write a short note on "Spectrophotometer" with neat sketch. Write the working principle of Ion Selective meter. OR	07 07	
	(b)	Derive and explain Lambert's and Beer's law.	07	
Q.3	(a) (b)	What is Chromatography? Explain stationary phase in Chromatography. Write a short note on pH meter.	07 07	
Q.3	(a)	OR Write a short note on TOC analyzer.	07	
Q.3	(a) (b)	Write a short note on Gas Chromatograph.	07	
Q.4	(a) (b)	Explain the term with examples (i) Standard Deviation (ii) Relative Deviation Write a short note on Frequency distribution curve. OR	07 07	
Q.4	(a) (b)	Write a short note on Raman Spectroscopy. Give the applications of High Performance Liquid Chromatography.	07 07	
Q.5	(a) (b)	Write a short note on Standard Hydrogen Electrode. Write a short note on Errors and Treatment of statistical data. OR	07 07	
Q.5	(a) (b)	Write a short note on Nephelo Turbidity Meter. Write a short note on Conductivity Meter.	07 07	
