GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V EXAMINATION – WINTER 2015

Subject Code: 151302Date:17/12/2015Subject Name: Advanced Environmental Instrumentation.Time: 10:30am to 1:00pmTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a)	Write the working principle of Flame Photometer.	07
	(b)	Write a short note on UV-Visible spectroscopy with neat sketch.	07
Q.2	(a)	Write a short description on Electromagnetic Spectrum.	07
	(b)	Derive and explain Lambert's and Beer's law.	07
	(b)	OR Write the working principle of Ion Selective meter.	07
Q.3	(a)	Write a short note on TOC analyzer.	07
	(b)	Write a short note on Gas Chromatograph.	07
Q.3	(a) (b)	OR What is Chromatography? Explain stationary phase in Chromatography. Write a short note on pH meter.	07 07
Q.4	(a)	Write a short note on Nephelo Turbidity Meter.	07
	(b)	Write a short note on Conductivity Meter.	07
Q.4	(a) (b)	OR Write a short note on types of errors for statistical data. Give the applications of High Performance Liquid Chromatography.	07 07
Q.5	(a)	Write a short note on Standard Hydrogen Electrode.	07
	(b)	Write a short note on Frequency distribution curve.	07
Q.5	(a) (b)	OR Explain the term with examples (i) Standard Deviation (ii) Relative Deviation Write a short note on Atomic Adsorption Spectroscopy.	07 07
