GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V- EXAMINATION - SUMMER 2016

Subject Code: 151302 Subject Name: Advanced Environmental Instrumentation	Date: 21/05/2016
Time: 02:30 PM to 05:00 PM Instructions:	Total Marks: 70
 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1 (a) Explain in detail Atomic absorption spectroscopy with schematic d	iagram 07
(b) Write a note on Infrared Spectroscopy	07
Q.2 (a) Write a note on High –performance liquid chromatography	07
(b) Write a note on Fluorimetry OR	07
(b) Mention the environment significance of turbidity meter and method of	determination 07
Q.3 (a) Describe the Lambert and Beer laws of light absorption	07
(b) Draw the electromagnetic spectrum and write note on Ultraviolet spect OR	troscopy 07
Q .3(a) Write a note on mass spectroscopy	07
(b) Write a note on atomic spectroscopy	07
Q.4 a) Write a note on thin layer chromatography	07
(b) 1. Draw the schematic diagram of Gas chromatography with label	03
2. Explain the significance of chromatography in a method of analy OR	ysis 04
Q.4 a) Write a note on ion –chromatography	07
(b) Write a note on column chromatography	07
Q.5 (a) Write a note on Accuracy and Precision	07
(b) Write a note on electrodes	07
OR	
Q.5 (a) Write the note on potentiomettic titration	07
(b) Define the mean and median. Write a note on standard deviation as	nd write the equation of
variance	07