GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm. - SEMESTER-VI • EXAMINATION - SUMMER-2017

Subject Code: 2260003 Date: 03/05 Subject Name: Pharmaceutical Analysis-IV			7
•		30 AM to 01:30 PM Total Marks: 8	0
Instructions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			
Q.1	(a) (b) (c)	Discuss the generation of X-rays and explain Bragg's law. Discuss instrumentation and applications of X-ray diffraction. Write a short note on "Raman Spectroscopy."	06 05 05
Q.2	(a) (b) (c)	Explain briefly the following terms (i) GC-MS (ii) LC-MS (iii) LC-MS/MS Explain in detail "The applications of Radio Nuclides." Explain the Radioactive Decay and the various units of Radioactive Decay.	06 05 05
Q.3	(a) (b) (c)	Explain various detectors used in HPLC. Explain Principle and applications of HPLC. Describe the different pumps used in HPLC.	06 05 05
Q.4	(a) (b) (c)	Write a short note on GLP. Explain in detail about GATT & TRIPS. Write an informative note on ISO.	06 05 05
Q.5	(a) (b) (c)	Explain instrumentation and applications of HPTLC. Write a short note on "ELISA." Define and explain Patent. Discuss the various steps involved in patent filling.	06 05 05
Q. 6	(a) (b) (c)	Discuss the principle and applications of Gas Chromatography. Write a short note on "The Detectors used in GC." Discuss Derivatizations in GC.	06 05 05
Q.7	(a)	Discuss various parameters used for Analytical Method Validation as per ICH guidelines.	06
	(b)	Explain briefly (i) Nephlometry (ii) Turbidimetry	05
	(c)	Write a short note on (i) Ion Exchange Chromatography (ii) Affinity Chromatography	05
