## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.PHARM - SEMESTER-VI • EXAMINATION – SUMMER-2016

Subject Code: 2260003Date:05/05Subject Name: Pharmaceutical Analysis IV			2016	
Time Instru 1. 2.	Time: 10:30 AM to 1:30 PMTotal Marks: 80nstructions:1. Attempt any five questions.1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a)	Write a short note on Affinity chromatography.	06	
	(b)	Explain principle, procedure and application of HPTLC.	05	
	(c)	Write a short note on supercritical fluid chromatography.	05	
Q.2	(a)	Explain instrumentation and application of Gas chromatography.	06	
	(b)	Give a brief note on GC-MS.	05	
	(c)	Differentiate between HPLC & GC.	05	
Q.3	(a)	Explain Bragg's law. Explain different method for x-ray diffraction study.	06	
	(b)	Explain application of x-ray diffraction study.	05	
	(c)	Write a short note on GLP.	05	
Q.4	(a)	Explain principle and application of HPLC.	06	
	(b)	Give brief account on HPLC instrumentation.	05	
	(c)	Write a note on GATT & TRIPS.	05	
Q.5	(a) (b) (c)	Differentiate Raman spectroscopy and IR spectroscopy. Write a note on Raman spectroscopy. Write a note on Ion exchange chromatography. Write note on Gel permeation chromatography.	06 05 05	
Q. 6	(a)	Write a note on ISO.	06	
	(b)	Explain the steps involved in filing patent.	05	
	(c)	Explain principle, methodology and application of ELISA.	05	
Q.7	(a)	Write a note on RIA.	06	
	(b)	Discuss various parameters of analytical method validation.	05	
	(c)	Write a brief note on nephelometry.	05	

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