Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-6 • EXAMINATION - SUMMER -2018

Subject Code: 2260003 Date: 03/05/2018

Subject Name: Pharmaceutical Analysis IV

Time: 10:30 AM TO 01:30 PM Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Discuss the instrumentation of Gas chromatography. Add a special note on detectors used in gas chromatography.	06
	(b)	What is the application of radio nuclides.	05
	(c)	Write a note on ion exchange and size exclusion Chromatography.	05
(b)	(a)	Write principle and instrumentation of HPTLC.	06
	(b)	Describe advantages and limitations of HPTLC.	05
	(c)	Compare HPLC with HPTLC.	05
Q.3	(a)	Explain principal of gas chromatography in detail.	06
	(b)	Describe application of GC in Pharmacy in detail.	05
	(c)	Describe different steps of filling patent in detail.	05
Q.4	(a)		06
•		Explain Classification and Principle of HPLC and Mobile phase, Stationary phases used in HPLC.	
	(b)	What is Radio Immuno Assay? Write a brief note on ELISA.	05
	(c)	Write a brief note on LC-MS.	05
((a)	Write basic principle and theory of affinity Chromatography and adsorption Chromatography.	06
	(b)	Comparison of HPLC with GC	05
	(c)	Explain super critical fluid Chromatography	05
Q. 6	(a)	Write detail not on Radio chemical techniques	06
	(b)	What is GLP? Explain it in detail.	05
	(c)	Write a note on Raman spectroscopy.	05
Q.7	(a)	What is analytical method validation? Describe different validation parameters according to ICH guideline.	06
	(b)	What are the elements, requirements and interpretation of ISO 9001;2000	05
	(c)	Describe application of X-ray crystallography in detail.	05
