Q.1

Seat No.:	Enrolment No.
Sear INO:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

	B. Pharm. – SEMESTER – VIII • EXAMI	NATION – WINTER • 2014	
Sul	oject Code: 280004	Date: 02-12-2014	
Sul	oject Name: Pharmaceutical Analysis-IV	7	
Tin	ne: 02:30 pm - 05:30 pm	Total Marks: 80	
Inst	 Attempt any five questions. Make suitable assumptions wherever ne Figures to the right indicate full marks. 	cessary.	
(a)	Define analytical method validation. Tabulat various analytical categories as per ICH guidel assay method are determined?	-	06
(b)	What are the different instruments used for mean a brief account of them.	surement of radioactivity? Give	05
(c)	What is the basic difference between nephlome	etry and turbidimetry? Describe	05

Q.2 (a) Explain the principle, instrumentation and applications of super critical fluid 06 chromatography.

Explain principle of X-Ray diffraction. 05 **(b)**

(c) Explain in brief technique of GC-MS.

applications of nephlometry and turbidimetry.

05

Q.3 Describe liquid scintillation system for radionuclide. Write applications of 06 (a) Radionuclides.

Explain Bragg's law and write a note on applications of X-ray diffraction. 05 **(b)** 05

Write a brief note Raman spectroscopy. (c)

Q.4 Describe instrumentation for gas chromatography. 06 (a) 05

Give principle of ion-exchange chromatography. **(b)**

Describe advantages, disadvantages and applications of HPTLC. (c)

Q.5 principles chromatography. Discuss size exclusion 06 (a) Enumerate of chromatography.

(b) Enlist the detectors used in GC and discuss construction and working of any

Explain requirement of ISO 9001-2000. (c)

Compare HPLC and gas chromatography. Describe principle and applications Q. 6 (a) 06 of HPLC.

(b) Write in detail on detectors of HPLC.

05 Give a brief account on ELISA technique. (c) 05

Q.7 Describe the principle, technique and applications of affinity chromatography. 06 (a)

Write a note on Good Laboratory Practice (GLP). 05 **(b)**

Explain in brief GATT and TRIPS. (c)

05

05

05

05