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Seat 1	No.:	

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-VIII • EXAMINATION - Summer-2016

Subject Code: 280004 Date: 04/05/2016

Subject Name: Pharmaceutical Analysis IV

Time: 10:30 AM to 1:30 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)	What is Analytical Method Validation? Write in detail about any three validation parameters as per ICH guideline.	06
	(b) (c)	Explain isotope dilution analysis in radiochemical methods. Write a note on principle, technique and applications of ELISA.	05 05
Q.2	(a) (b) (c)	Explain Bragg's law and Give applications of X-ray diffraction Write a note on detectors used in gas chromatography Write in short about ISO 9001:2000.	06 05 05
Q.3	(a) (b) (c)	Write advantages, disadvantages and applications of gas chromatography. Write a brief note on Nephlometry and Turbidimetry with its applications. Write a note on radio-immuno assay (RIA)	06 05 05
Q.4	(a) (b) (c)	Explain in brief Hyphenated technique of chromatography. Describe generation and characteristic of X-rays. Write a short note on Good Laboratory Practice (GLP).	06 05 05
Q.5	(a) (b) (c)	Explain the principle, instrumentation and applications of super critical fluid Chromatography. Give details of ion-exchange chromatography. Define the following terms in HPLC: Resolution, Capacity factor, Theoretical Plates and peak asymmetry factor?	06 05 05
Q. 6	(a) (b) (c)	Describe advantage, disadvantage and applications of HPTLC. What is patent? Write a note on steps involved in patent filling in India. How Raman spectra recorded? Discuss applications of raman spectroscopy	06 05 05
Q.7	(a) (b) (c)	Give brief account on GATT and TRIPS Write a short note on affinity chromatography. Give units of radioactivity. Write a note on applications of radionuclides?	06 05 05
