Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## B. Pharm - SEMESTER VIII • EXAMINATION - WINTER-2016

Subject Code: 280004 Date: 28/11/2016 Subject Name: PHARMACEUTICAL ANALYSIS-IV Time: 02.30 pm - 05.30 pm Total Marks: 80				
2.	Atte Mak	s: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a) (b)	Comment the following sentences.  1. Chemically bonded silica gel is more selective than unmogel.  2. Hydrogen and Helium is choice of carrier gas for Thermal Detector.  Write a note on Electron Capture Detector.		06
Q.2	(c) (a) (b) (c)	Explain principle of Raman Spectroscopy.  Describe merits of HPTLC over HPLC.  Differentiate Nephelometry and Turbidimetry methods.  Define: Bragg's law and explain the origin of X-rays.		05 06 05 05
Q.3	(a) (b) (c)	Write a note on Super Critical Fluid Chromatography. Explain the Loop Injection System. Write advantage and limitation of HPTLC.		06 05 05
Q.4	(a) (b) (c)	Enlist HPLC detector and explain Universal Detector for HPLC.  Describe block diagram of HPLC.  Explain the significance of Guard Column.		06 05 05
Q.5	(a) (b) (c)	Write a note on GC-MS. Write about principle and theory of Size Exclusion Chromatograp Discuss Open Tubular Column for GC.	bhy.	06 05 05
Q. 6	(a) (b) (c)	Write on Analytical Method Validation parameters. Write a note on Quality Management System. Write a note on Liquid Scintillation system.		06 05 05
Q.7	(a) (b)	Write in Brief about IPR. Write a note on ELISA.		06 05

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2) Calibration

(c) Explain: 1) HETP

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