

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 3rd Year • EXAMINATION – WINTER - 2019

Subject Code: 838802**Date: 18/11/2019****Subject Name: Pharmaceutical Analysis****Time:02:30PM TO 05:30PM****Total Marks: 70****Instructions:**

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

Q.1	(a) Explain Monochromators in UV spectroscopy.	06
	(b) Explain adsorption chromatography.	04
	(c) Write a brief note on DSC.	04
Q.2	(a) Explain Terms: Base Peak, Molecular ion peak, Braggs Law.	06
	(b) Write a brief note on quality variation sources.	04
	(c) Describe application of UV Spectroscopy.	04
Q.3	(a) Explain karl fischer titration	06
	(b) Define: Reverse Phase HPLC. Draw a Schematic diagram of HPLC.	04
	(c) Write a note on thermocouple and bolometer.	04
Q.4	(a) Write introductory note on total quality management.	06
	(b) Write a short note on conductivity cell.	04
	(c) What is Quenching? Describe its types in detail.	04
Q.5	(a) Classify Chromatographic methods. Explain circular paper chromatography.	06
	(b) Write a note on polarograph.	04
	(c) Define: Absorptivity, Hypsochromic Shift, HETP, Wavelength	04
Q. 6	(a) Write a short note on Instrumentation and application of HPTLC.	06
	(b) Explain instrumentation of flame photometry.	04
	(c) Write a brief note on theory of NMR.	04
Q.7	(a) Describe gel electrophoresis.	06
	(b) Enumerate GC detectors and explain any one.	04
	(c) Give introductory note on polarimeter.	04
