

www.FirstRanker.com www.FirstRanker.com

Seat No.:

Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm - SEMESTER VI- EXAMINATION - WINTER -2020

Subject Code:2260003Date: 07/01/20Subject Name: Pharmaceutical Analysis IVTime: 2:00 PM TO 4:00 PMTime: 2:00 PM TO 4:00 PMTotal Marks:Instructions:1. Attempt any THREE questions from Q-1 to Q-6.			
Q.1	(a) (b) (c)	Write an explanatory note on RIA and ELISA. Give an overview of LC-MS and LC-MS/MS. Write a detailed note on filing of Indian Patent Application.	06 05 05
Q.2	(a) (b) (c)	Define Analytical Method Validation. Enlist and explain Validation Parameters as per ICH guide lines. Enlist the differences as well as similarities between TLC and HPTLC. Write a detailed account on Partition and Adsorption Chromatography.	06 05 05
Q.3	(a) (b)	Explain the generation of X-rays. Derive Bragg's Law equation. Enlist the application of X-rays diffraction. What is Radioactive substance? Explain Isotopes Dilution Analysis & Liquid Scintillation Systems.	06 05
Q.4	(c) (a) (b) (c)	 Write an explanatory note on ISO 9001:2000. Explain the principle of GSC and GLC. Draw the diagram of GC instrument. Discuss different mobile and stationary phases used for GC. Give an overview of Raman Spectroscopy. Which are the units for Radioactivity measurement? How we can measure the Radioactivity? Enlist the applications of Radio nuclides. 	05 06 05 05
Q.5	(a) (b) (c)	What is Guard Column? Explain the theory & principle of HPLC. Draw the labeled diagram of HPLC instrument. Explain the mobile & stationary phases for Normal and RP-HPLC. Write a detailed note on Nephalometry & Turbidimetry. Give some account on any two detectors for GC.	06 05 05
Q. 6	(a) (b) (c)	Discuss the basic principle & theory of Ion-exchange as well as Size exclusion Chromatography along with their applications. Explain in detail the Super Critical Fluid Chromatography. Give some account on GATT and TRIPS.	06 05 05
Q.7	(a) (a)	Write a detailed note on GLP. OR Give an overview of GC-MS and compare HPLC with GC.	06 06
	(a)	OR Enlist the applications of GC and HPLC.	06
