Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - II • EXAMINATION - SUMMER • 2015

U		Code: 2920107 Date: 14-05-2015	
•	e: 10	Name: Pharmaceutical Analysis - II 0:30 am - 01:30 pm Total Marks: 80 ons:	
	1. 2. 3.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	Discuss various methods for the sample preparation for analysis. Write in detail about Size exclusion chromatography Discuss instrumentation and application of super critical fluid chromatography.	06 05 05
Q.2	(a) (b) (c)	What are Protein? Discuss primary structure determination of Proteins. Write note on Counter current chromatography. Discuss Electrophoretic methods used in the analysis of peptides and proteins.	
Q.3	(a) (b) (c)	Write note on HPLC method used in the analysis of biomolecules. Discuss analytical methods used for the analysis of analgesics and antipyretics. Write note on GC-MS method used for the analysis of biological samples.	06 05 05
Q.4	(a) (b) (c)	Write note on analytical methods used for the estimation of sedatives. What is related substance and impurity? Discuss solid state analysis of drug substance. What are residual solvent? Discuss ICH guideline for residual solvent.	06 05 05
Q.5	(a) (b) (c)	Discuss the ICH guideline for impurity in new drug substance. Write different quality control test used for analysis of Churna. What are different analytical methods used for the analysis of cardiovascular drugs.	06 05 05
Q. 6	(a) (b) (c)	What are different quality control test performed for the analysis of raw material used in herbal formulation? Discuss in brief. Write note on Tryptic maping method used for analysis of proteins. How isolation and characterization of impurities are carried out?	06 05 05
Q.7	(a) (b) (c)	Discuss in detail: Different extraction techniques used for extraction of Phyto constituents. Write brief note on Automated methods of analysis. Write different quality control test used for analysis of Asava.	06 05 05
