Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - II • EXAMINATION - WINTER • 2014

Subject Code: 1921501 Subject Name: Modern Pharmaceutical Analysis Time: 10:30 am - 01:30 pm Instructions:			
		0:30 am - 01:30 pm Total Marks: 80	
111311	1. 2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is isoelectric focusing (IEF)? Describe principle and applications of IEF. Discuss gels used in IEF.	10
	(b)	Discuss the role of ion-exchange chromatography in amino acid analysis.	06
Q.2	(a)	Discuss organic impurities obtained from synthetic process.	08 08
	(b)	-	
Q.3	(a)	What is pre-formulation study? Describe various methods of solubility determination.	08
	(b)	Discuss the analytical techniques used in pre-formulation study.	08
Q.4	(a) (b)	Discuss physical and chemical analysis of cosmetics. Describe quality control of radiopharmaceuticals.	10 06
Q.5	(a)	What are the techniques used for analysis of solid oral dosage forms? Describe application of thermal methods in analysis of solid oral dosage form with examples.	10
	(b)	•	06
Q. 6	(a)	Give characteristics of parenteral dosage forms. Describe their analysis during formulation and process development.	08
	(b)	Enlist and discuss in brief ICH guidelines in Pharmaceutical analysis.	08
Q.7	(a) (b) (c)	1	16
