Seat 1	No.: _	Enrolment No	_
		GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER 2013	
Subject Code: 2920104 Subject Name: Modern Pharmacoutical			
-	e: 02	Name: Modern Pharmaceutical Analysis 3.30 pm - 05.30 pm Total Marks: 80 ns:	
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Describe the spectrophotometric and pH metric methods of pKa determination.	08
	(b)		08
Q.2		What are cosmetics? Discuss in detail evaluation of various cosmetic preparations.	16
Q.3	(a)	Enlist WHO guideline for QC standards of medicinal plant materials. Describe any two.	08
	(b)	Explain various pharmacopoeia tests for analysis of API.	08
Q.4	(a)	Which are the test for quality control of parenteral preparation? Describe bioburden test.	08
	(b)	How do impurities affect quality of drug formulation? Discuss stability study requirements for new Drug substance and Drug products as per ICH guideline.	08
Q.5	(a) (b)	Explain concept and objectives of automated analysis? Write not on PAT.	08 08

(b) Write not on PAT. 08

Q. 6 (a) Write note on sterility testing.
(b) Discuss types and major steps of styptic mapping.
08
08

Q.7 (a) Explain briefly techniques of physicochemical characterization of solid oral dosage form.

(b) Enlist quality control standards for radiopharmaceuticals. Compare ELISA and RIA.

08
