

GUJARAT TECHNOLOGICAL UNIVERSITY
M. PHARM. - SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 2920104**Date: 10-01-2013****Subject Name: Modern Pharmaceutical Analysis****Time: 10.30 am - 01.30 pm****Total Marks: 80****Instructions:**

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

Q.1	(a)	Elaborate upon Sterility testing of Parenteral dosage forms.	08
	(b)	Discuss bioburden testing of parenteral products.	08
Q.2	(a)	Enlist various physicochemical characterization techniques for the analysis of solid oral dosage form. Explain any one in detail.	08
	(b)	Elaborate on “Tryptic mapping” and “Ion exchange amino acid analysis” techniques.	08
Q.3	(a)	What is cosmetic? Discuss various method of analysis of cosmetic formulations.	08
	(b)	Give a brief account on regulatory requirements of cosmetic formulations.	04
	(c)	Enlist the various analytical techniques used for preformulation studies	04
Q.4	(a)	Enlist and discuss in brief ICH guidelines in Pharmaceutical analysis.	08
	(b)	Explain the importance of preformulation study. Describe Pharmaceutical and Mechanical properties in preformulation study.	08
Q.5	(a)	Elaborate upon various radiochemical methods in analysis of pharmaceuticals.	08
	(b)	Explain in detail the concept of Automated analysis.	08
Q. 6	(a)	Explain WHO guidelines and policy for Quality control methods for medicinal plant materials.	08
	(b)	Discuss compendial testing of API.	08
Q.7	(a)	Enlist the properties associated with the molecular level, particulate level and the bulk level as regards “Solid state analysis” of drug substances. Explain in detail the properties associated with the particulate level.	08
	(b)	Give a brief account on Isolation and identification of impurities.	08
