Seat No.: _		Enrolment No
	<b>GUJARAT TECHNOLO</b>	OGICAL UNIVERSITY
	M.PHARM- SEM-II-EXA	MINATION – JULY 2012
Subject o	code: 2920104	Date: 06/07/2012

**Subject Name: Modern Pharmaceutical Analysis** 

Time: 10:30 am – 01:30 pm **Total Marks: 80** 

## **Instructions:**

1.	Attemr	t anv	five	questions.
1.	ALLUCITIE	o any	1110	questions.

- Make suitable assumptions wherever necessary.
   Figures to the right indicate full marks.

Q.1	(a)	Enlist the analytical tests for parenteral preparations. Discuss	06
	(b)	sterility testing and particulate matter test Explain how ion exchange chromatography aid in amino acid	05
	(c)	analysis.  Describe properties associated with particulate level in pharmaceuticals	05
Q.2	(a) (b) (c)	Enlist and discuss in brief ICH guideline in pharmaceutical analysis Describe role of Near Infred Analysis in solid dosage form analysis. What are the analytical methods used for biotechnological derived products.	06 05 05
Q.3	(a)	Explain the term solid state analysis of drug substances. Properties associated with molecular level.	06
	(b)	Enlist various compendia parameters of standardization of herbal	05
	(c)	drugs and formulations and discuss any two of them in detail. What is tryptic maping. Discuss it uses and limitations.	05
(	(a)	What are preformulation studies? Describe analytical techniques for	06
	(b)	preformulation analysis.  Define the term cosmetic. Explain in brief various methods of	05
	(c)	analysis of cosmetic formulations.  Quality control of radiopharmaceuticals.	05
Q.5	(a)	Explain in detail various physicochemical characterization	06
	(b)	techniques for the analysis of solid oral dosage form.  Describe properties associated with molecular level in	05
	(c)	pharmaceuticals. Discuss isoelectric focusing techniques.	05
Q. 6	(a)	Why impurities analysis is required? Discuss drug substance	06
	(b)		05
	(c)	testing API and its dosage form with suitable example.  Quality control methods for medicinal plant materials as per WHO	05
Q.7	(a) (b) (c)	Outline of preformultion report.  Discuss bacterial endotoxin testing Automated analysis	06 05 05

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