Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER • 2014

Subj	ject	Code: 2920104 Date: 29-05-2014	
•		Name: Modern Pharmaceutical Analysis 2:30 pm - 05:30 pm Total Marks: 80	
Instr		1	
IIISU	1. 2.	Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	of antibiotics, packing material and thermo labile drug product.	10 06
	(D)	Discuss Bio-builden testing of parenteral products.	VU
(b	(a)	Explain dissolution standards and general method for dissolution test of enteric coated oral dosage form.	06
	<b>(b)</b>	What are objectives and concepts of automation adopted in manufacturing of pharmaceuticals.	05
	(c)	As per ICH guideline outline validation of assay method of impurities in API.	05
(b	(a)	Discuss principle and application of Isoelectric focusing technique of electrophoresis.	06
	(b) (c)	As per IP outline method of validation of UV spectrophotometer. What is effect of impurity in API? Write note on degradation study.	05 05
Q.4	(a) (b)	± •	08 08
	(a)	Describe application of DSC, NMR and Near-infrared in physicochemical characterization of solid dosage forms.	10
	<b>(b)</b>	<del>-</del>	06
Q. 6	(a)	How will you determine solubility, dissociation constant, and partition coefficient of a new drug substance?	10
	<b>(b)</b>	_	06
Q.7	(a) (b)	1 0 11 0	08 08

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