Seat 1	No.: _	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2015	
Sub	ject	Code: 910107 Date: 31-12-2015	
Sub	ject [	Name: Pharmaceutical Analysis - I	
Tim	e: 1(	0:30 am - 01:30 pm Total Marks: 80	
Instr			
		Attempt any five questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	<i>J</i> .	rigures to the right indicate fun marks.	
Q.1	(a)	Write the applications of instrumental methods in the development of medicines.	06
	<b>(b)</b>		05
	(c)	Write a note on validation of IR spectrophotometer.	05
<b>Q.2</b>	(a)	Discuss validation of UV visible spectrophotometer.	06
	<b>(b)</b>		05
	<b>(c)</b>	Write instrumentation and applications of Ion Selective electrodes.	05
Q.3	(a)	Describe principles and procedures involved in quantitative determination of aldehyde and ketones.	06
	<b>(b)</b>	Write principles involved in analysis of pharmaceutical dosage forms containing Sulphonamides.	05
	<b>(c)</b>	Discuss analysis of Barbituric acid derivatives.	05
Q.4	(a)	Write a note on estimation of alkaloids of Rauwolfia.	06
	<b>(b)</b>	Discuss assay principle and procedure used for analysis of androgens.	05
	<b>(c)</b>	Write principles involved in estimation of Vitamin A and Vitamin E.	05
Q.5	(a)	Write principles and procedures involved in estimation of Erythromycin.	06
	<b>(b)</b>	· · · · · · · · · · · · · · · · · · ·	05
	(c)	Write principle involved in the use of Folin- Ciocalteau reagent in	05
		pharmaceutical analysis.	
Q. 6	(a)		06
	(b)	benzothiazoline hydrazone (MBTH).  How can you estimate the drug using Ninhydrin as reagent in pharmaceutical	05
	<b>(b)</b>	analysis?	US
	(c)	Discuss use of 1,2-Naptho Quinone 4- Sulphonate in pharmaceutical analysis.	05
Q.7	(a)	Write principles involved in element analysis of sodium, potassium and	06
Q.1	(a)	calcium.	V
	<b>(b)</b>		05
	(c)	Discuss in detail about analysis of excipients in sold states by particle size analysis.	05

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