Seat No.:	Enrolment No.
Seat No	Elliolillelli No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - III • EXAMINATION - WINTER 2013

Subj	ect	Code: 230004 Date: 21-12-2013	
Subj	ect ?	Name: Pharmaceutical Analysis-I	
Time	e: 10	0.30 am - 01.30 pm Total Marks: 80	
Instru			
		Attempt any five questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Explain Terms: (1) Validation (2) Primary standard substance (3) Calibration (4) Specificity	06
	(b)	• • • •	05
	(c)	What is sampling? Discuss sampling techniques.	05
Q.2	(a)	What is hydrolysis? Derive equation for finding pH of aqueous solution of Ammonium Chloride	06
	(b)	Explain theory of acid – base indicator.	05
	(c)	50 ml of 0.1M HCl is titrated with 0.12 M NaOH. When 10 ml of NaOH has	05
		been added What is the pH of the solution?	
Q.3	(a)	Discuss end point detection in Redox titration	06
Q.S	(b)	-	05
	(0)	(1) Iodometric titration and Iodimetric titration	Ů.
		(2) Masking agent and Demasking agent	
	(c)	Write short note on Pharmaceutical buffer.	05
Q.4	(a)	Write note on solvent, titrant and indicator used for weak acid and weak base substance in non-aqueous titration.	06
	(b)	•	05
	(c)		05
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Q.5	(a)	<u> </u>	06
	(1.)	Fischer Reagent.	•
	(b)	*1 1	05
	(c)	Discuss principle involved in the assay of Calcium lactate IP 96	05
Q. 6	(a)	Write a note on estimation of Nitrogen in organic compounds by Kjeldhal method.	00
·	(b)	• 1	05
		principle in analysis.	
	(c)	Discuss Adsorption indicator method.	05
Q. 7	(a)	Explain terms:	06
_	` '	1) Von-Weimarn's ratio	
		2) Co-precipitation	
		3) Digestion	
		4) Post Precipitation	

- (b) Discuss about Oxygen flak combustion method
 (c) 30 ml 0.5% w/v aqueous solution of acetanilide was extracted with three 60 ml portion of ether. The ether/water partition coefficient for acetanilide is 4.0. Calculate total amount of drug extracted.

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