GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2017

	•		Date: 06/06/2017	
	•	ect Name: Pharmaceutical Analysis-I : 02:30 PM to 05:30 PM Total Mar	ks: 80	
	Instructions:			
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	 Answer the following: 1. Define : precision, accuracy, oxidation, ligand 2. Disodium edetate is a hexadentate ligand. Comment. 3. Differentiate iodimetry and iodometry. 	06	
	(b) (c)	Define validation and explain various analytical validation parameters.	05 Iow 05	
Q.2	(a)	acid and strong base.		
	(b)	50 ml of 0.1M acetic acid is titrated with 0.1 M sodium hydroxide. Calculate pH of solution when following volume of NaOH is added, 1) 0 ml, 2) 10 ml, 3) 25 ml, 4) 50 ml. Ka of acetic acid = 1.8×10^{-5}	the 05	
	(c)		05	
Q.3	(a)	What is Argentimetric titration? Describe Mohr's method for determination chloride?	n of 06	
	(b) (c)	-	05 05	
Q.4	(a)	Write a brief note on:1. Ionic product of water2. Kjeldahl method	06	
	(b)	Explain various precipitation techniques in gravimetric analysis.	05	
	(c)	Differentiate co-precipitation and post-precipitation.	05	
Q.5	(a) (b)		06 05	
	(c)	2. Standardization of iodine solution Write a detailed note on : Redox indicators	05	
	(\mathbf{c})	which a dotation note on . Redox indicators	05	

Q. 6	(a)	Answer the following:1. Ligands2. Classification of analytical methods	06
	(b)	Explain complexometric titration and masking agent with example. What are the ideal requirements of metal ion indicators?	05
	(c)	Explain common ion effect and diverse ion effect with example.	05
Q. 7	(a) (b)	What is error? Classify it, How errors can be minimized? Explain in detail principle, instrumentation and applications of Karl Fischer titration.	06 05
	(c)	Explain adsorption indicator method for precipitation.	05
