Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER –1 EXAMINATION – SUMMER-2024

Sub	ject (Code: BP102TP Date: 10/06/2024		
Sub	Subject Name: Pharmaceutical Analysis I			
Time: 02.30 p.m. to 5.30 p.m. Total Marks: 80				
	uctions			
		empt any five questions.		
2.		ke suitable assumptions wherever necessary. 1res to the right indicate full marks.		
3.	rigu	nes to the right indicate full marks.		
Q.1	(a)	Mention the sources and types of error. Explain in detail about methods of minimizing errors	06	
	(b)	Explain principle and application of conductometric titration	05	
	(c)	Give comments:1. Mohr's titration is carried out in acidic media.2. Acetic acid is added in preparation of perchloric acid	05	
Q.2	(a)	Define standardization and explain primary and secondary standards.	06	
	(b)	Write a note on masking and demasking of complexometric titration	05	
	(c)	What is hydrolysis? Explain the hydrolysis of salts obtained from weak acid and strong base.	05	
Q.3	(a)	Define precipitation titration. Explain Volhard's method used for detection of end point for estimation of halides.	06	
	(b) (c)	Define pharmacopoeia. Explain official monograph for pharmaceutical substance Discuss about pM indicator	05 05	
Q.4	(a)	Explain following terminology 1. Accuracy, 2. Precision, 3. Molarity, 4. Normality, 5. Co precipitation	06	
	(b) (c)	Write in detail about solvents used in non-aqueous titration Describe the construction, reaction, advantages and disadvantages of standard hydrogen electrode	05 05	
Q.5	(a)	Write in detail about basic Principles, methods and applications of diazotization titration	06	
	(b) (c)	Enumerate different indicator electrodes and explain any one in detail Explain about neutralization curve.	05 05	
Q. 6	(a)	What is buffer solution? Derive Henderson Hasselbach equation for finding pH of buffer solution?	06	
	(b)	What is gravimetric analysis? Explain advantage, disadvantage and application of gravimetric analysis.	05	
	(c)	Explain in detail about Iodometry titration. Mention how it differs from Iodimetry titration.	05	
Q.7	(a)	Enlist different types of redox titration. Discuss in detail about cerimetry titration	06	
	(b) (c)	Describe the principle of polarography. Discuss half wave potential and its applications	05 05	
