Seat No.:	Enrolment No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. - SEMESTER- I• EXAMINATION - SUMMER-2023

Subject Code:BP102TP Date: 10/08/2023

Subject Name: Pharmaceutical Analysis I

Time: 02:30PM TO 05:30PM Total Marks: 80

**Instructions:** 

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is buffer solution? Explain types of buffer solution, preparation of buffer solution, buffer action.	06
	(b) (c)	Enumerate acid base theories and Explain Lowry Bronsted Acid- Base theory. Define Hydrolysis and derive equation for finding pH of aqueous solution of week acid and strong base.	05 05
Q.2	(a) (b) (c)	Describe a note on theory of redox titrations.  Difference between Iodimetry titration and Iodometry titration.  Write a note on conductometric titrations	06 05 05
Q.3	(a) (b) (c)	Explain a note on Mohr's method Write a note on Diazotization titration. Write a note on Vollhard method	06 05 05
Q.4	(a) (b) (c)	Monograph of Indian Pharmacopoeia Give detail note on non aqueous titration Define, ideal characteristic and give suitable example of primary standard	06 05 05
Q.5	(a)	Describe Dropping Mercury Electrode.	06
	(b) (c)	Enlist different reference electrode used in potentiometry. Explain Saturated Calomel Electrode Explain principle and applications of polarimetry	05 05
Q. 6	(a) (b) (c)	Define validation. Explain validation parameters. Write a note on sampling techniques. Define error, classify error and how will you minimize error	06 05 05
Q.7	(a) (b) (c)	Give note on masking and demasking agent in complexometric titration Write a note on different types on complexometric titrations. Discuss differentiating solvents and leveling solvents.	06 05 05

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