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## GUJARAT TECHNOLOGICAL UNIVERSITY <br> B.Ph. - SEMESTER- I• EXAMINATION - SUMMER-2023

Subject Code:BP102TPDate: 10/08/2023
Subject Name : Pharmaceutical Analysis ITime: 02:30PM TO 05:30PMTotal 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 ..... 06 solution, buffer action.
(b) Enumerate acid base theories and Explain Lowry Bronsted Acid- Base theory. ..... 05
(c) Define Hydrolysis and derive equation for finding pH of aqueous solution of ..... 05 week acid and strong base.
Q. 2 (a) Describe a note on theory of redox titrations. ..... 06
(b) Difference between Iodimetry titration and Iodometry titration. ..... 05
(c) Write a note on conductometric titrations ..... 05
Q. 3 (a) Explain a note on Mohr's method ..... 06
(b) Write a note on Diazotization titration. ..... 05
(c) Write a note on Vollhard method ..... 05
Q. 4 (a) Monograph of Indian Pharmacopoeia ..... 06
(b) Give detail note on non aqueous titration ..... 05
(c) Define, ideal characteristic and give suitable example of primary standard ..... 05
Q. 5 (a) Describe Dropping Mercury Electrode. ..... 06
(b) Enlist different reference electrode used in potentiometry. Explain Saturated ..... 05 Calomel Electrode
(c) Explain principle and applications of polarimetry ..... 05
Q. 6 (a) Define validation. Explain validation parameters. ..... 06
(b) Write a note on sampling techniques. ..... 05
(c) Define error, classify error and how will you minimize error ..... 05
Q. 7 (a) Give note on masking and demasking agent in complexometric titration ..... 06
(b) Write a note on different types on complexometric titrations. ..... 05
(c) Discuss differentiating solvents and leveling solvents. ..... 05

