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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 1 EXAMINATION - WINTER -2024

Subject Code: BP102TP Date: 13/02/2025 Subject Name: Pharmaceutical Analysis I Time: 10.30 AM TO 01.30 PM **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 06 (a) Write in detail about Errors. Classify analytical methods. Define: Accuracy, Precision. 05 **(b)** Write short note on Pharmacopoeia. 05 (c) **Q.2** Which factors affect conductance? Explain it in detail. 06 (a) Write definition of Molality and Normality. Write a note on preparation and **(b)** 05 standardization of molar and normal solutions of Oxalic acid and NaOH. Briefly write on primary and secondary standards. 05 (c) 0.3 Write in detail about end point detection method in acid base titration. 06 (a) **(b)** Define: (1) Limiting current (2) Migration current (3) Residual current (4) 05 Diffusion current (5) Potentiometry Explain Redox titration. (c) 05 **Q.4** Which electrodes are used in Potentiometry? Explain reference electrode in 06 (a) detail. 05 Write short note on methods of expressing concentration. **(b)** (c) Write short note on Principles and application of Redox titration. 05 **Q.5** Write in detail about conductivitycell, conductometry titrations and its 06 (a) applications. **(b)** Enlist precipitation titration method and write in detail on Mohr's method. 05 Write short note on principle and steps involved in gravimetric analysis. 05 (c) **Q.** 6 Explain theory of strong, weak and very weak acids and bases in acid base 06 (a) titration. Which are nonaqueous titration? Briefly write on acidimetry and alkalimetry **(b)** 05 titration and estimation of Sodium benzoate. Write short note on theory of acid-base indicators. 05 (c) **Q.7** Explain complexometry titration in detail. **06** (a) Explain estimation of ephedrine HCL. 05 **(b)** (c) Write short note on Polarography. 05
