

**BACHELOR OF PHARMACY (B. PHARM.) (CBCS-2019 COURSE)**

**B. Pharm. Sem-I : WINTER : 2021**

**SUBJECT: PHARMACEUTICAL ANALYSIS**

**Day : Friday**  
**Date : 14-01-2022**

**W-20654-2021**

**Time : 10:00 AM-01:00 PM**  
**Max. Marks: 75**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

**SECTION-I**

**Q.1** Answer all questions: **(20)**

- a) Differentiate between Normality and Molarity.
- b) How will you prepare 0.1N Sodium thiosulphate solution?
- c) Define errors and classify them with suitable example.
- d) Give Neutralization curve of strong acid and strong base with example.
- e) Discuss in detail Non-aqueous solvents used in Non-aqueous titrations.
- f) Give the principle involved in the assay of Calcium gluconate.
- g) How will you prepare and standardized 0.1N Silver nitrate solution.
- h) Explain how ferroin acts as redox indicator.
- i) Give the applications of diazotization titration.
- j) Define the terms Specific conductance and Molar conductance.

**Q.2** Answer any **TWO** of the following: **(20)**

- a) State and explain various types of Precipitation titration.
- b) Explain in detail Theories of acid-base indicators.
- c) Write a note on construction and working of Dropping mercury electrode.

**SECTION-II**

**Q.3** Answer any **SEVEN** of the following: **(35)**

- a) Define Primary standard and Secondary standards substances. Explain with example.
- b) Explain Buffers in detail. What is Buffer index and Buffer capacity?
- c) Short note on assay of Sodium chloride as per I. P.
- d) Explain metal- EDTA titration curve.
- e) Write about solvents used in washing of precipitate.
- f) Compare between Iodometry and Iodimetry method.
- g) Draw neat labeled diagram of Electrochemical cell. Explain terms associated with Nernst equation.
- h) What is Conductometric titration? Explain the method for measurement of Conductance.
- i) Write short note on rotating platinum electrode.

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