

FACULTY OF PHARMACY
B. Pharmacy I - Semester (PCI) (Main & Backlog) Examination, March 2024
Subject: Pharmaceutical Analysis

Time: 3 Hours

Max.Marks:75

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define Errors and mention the different methods to combat errors in Analysis.
2. What is an indicator and write about the indicators used in redox titrations.
3. Define end point and equivalence point.
4. Write the applications of potentiometry.
5. Define Accuracy and precision with example.
6. Explain the terms Co-precipitation and post precipitation.
7. Define primary standard with example.
8. Write about the source of impurities in medicinal agents.
9. Define Digestion and Nucleation in gravimetric analysis.
10. Define the Brownsted-Lowry theory with examples?

PART - B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Explain the sources of impurities in medicinal agents. Write the limit test for (i) Sulphates (ii) Chlorides.
12. Write the theories of acid-base indicators.
13. What is potentiometry? Explain construction and working of electrochemical cell?

PART - C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Write in detail any one method of precipitation titrations.
15. Write the Principle and applications of diazotization titrations?
16. Write about different methods of expressing concentration of solutions.
17. Write the preparation and standardization of 0.1N KMnO_4 .
18. Explain Masking agents and Demasking agents in Complexometric titrations?
19. Write about electrodes used in polarography.
20. What is conductance? Write about conductivity cell with a neat labeled diagram.
21. Discuss the different types of solvents with examples used in Non-Aqueous titrations.
22. Write a short note on types of Complexometric titrations.
