

QP Code: 122006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 2025**

**Pharmaceutical Analysis - I
(2017 and 2024 Scheme)**

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay

(2x10=20)

1. List out different types of redox titrations. Explain in detail about assay of Ferrous sulphate by cerimetry
2. Classify complexometric titrations. Write about various metal ion indicators

Short Notes

(7x5=35)

3. Write the principle and procedure for Mohr's method
4. Write note on principles involved in the estimation of sodium benzoate
5. Define error and write the comment on systematic error
6. Write the procedure for the preparation and standardization of sodium thio sulphate ($\text{Na}_2\text{S}_2\text{O}_3$)
7. Write in detail about theories of acid base indicators
8. Draw and write the working principles of calomel electrode
9. Principle and applications of Diazotisation titration

Answer Briefly

(10x2=20)

10. Define co-precipitation
11. Comment on strong acid Vs strong base titration curve.
12. Application of polarography
13. Indicators used in non aqueous titration
14. Role of magnesium sulphate in calcium gluconate assay by complexometry
15. Masking reagents.
16. Define accuracy
17. Define resistance
18. Explain the advantages and disadvantages of glass electrode
19. Define molarity
