

QP Code: 105008

Reg. No.: .....

**First B. Pharm (Ayurveda) Degree Regular Examinations  
November 2024**

**Pharmaceutical Analysis I**

**Time: 3 Hours**

**Max Marks: 100**

- *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*

**Essay**

**(2x10=20)**

1. Describe briefly the determination of moisture and water by Karl-Fischer titration
2. Explain about types of pM indicators used in complexometric titration. Write its mechanism and structure

**Short Notes**

**(10x5=50)**

3. Describe briefly the Redox titration involved in Titanous chloride
4. Explain about Mohr's method in precipitation titration
5. Write about minimization of errors
6. What is Hydrogen ion exponent. Explain
7. Write note on Kjeldahl method for nitrogen determination
8. Write the principle and procedure involved in the determination of ferrous sulphate using 0.1 N potassium permanganate solution
9. Write note on mixed indicators
10. How does an adsorption indicator works
11. Explain the advantages and dis-advantages of organic precipitating agents
12. Write about the effect of PH on complex formation

**Answer Briefly**

**(10x3=30)**

13. How to calculate gravimetric factor. Give example
14. Write about the advantages of Gravimetric analysis
15. How is starch iodide paper prepared
16. What is ligand
17. Explain Arrhenius theory.
18. Solvents used in non-aqueous titration.
19. Why is disodium edetate used instead of EDTA
20. Write note on secondary standards
21. What is a diazotization titration
22. Name some oxidizing agents

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