

QP Code: 105008

Reg. No.: .....

**First B. Pharm (Ayurveda) Degree Supplementary Examinations  
August 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. Define non-aqueous titrations
  - a) What is the interference due to water in non-aqueous titrations
  - b) Write note on leveling effect and differentiating effect
  - c) Write the principle and procedure involved in assay of sodium benzoate

(1+2+2+5)
2. Write briefly on
  - a) Oxygen flask combustion
  - b) Potentiometric determination of primary aromatic amino group

**Short Notes**

**(10x5=50)**

3. Write about various factors affecting PH of a buffer solution
4. Write the theory and procedure involved in the determination of barium as barium sulphate
5. Describe briefly the Redox titration involved in sodium 2, 6 dichlorophenol indophenols
6. Explain about the turbidity method in argentimetric titration
7. How will you standardize ceric ammonium sulphate
8. Explain about the various factors affecting EDTA titrations
9. How does phenolphthalein works
10. How you calculate the standard redox potential value
11. Explain about the theory of precipitation
12. Explain about Borate buffers

**Answer Briefly**

**(10x3=30)**

13. Define precision and accuracy
14. Types of errors
15. Define common ion effect
16. Explain about chelating agent
17. Preparation of starch indicator solution
18. Differentiate between iodometry and iodimetry
19. Buffer capacity
20. What is the significance of Henderson Hessel Balch equation
21. Universal indicators
22. Write about the uses of significant figures

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