QP Code: 105008 **Reg. No.: ……**

First B. Pharm (Ayurveda) Degree Regular/Supplementary Examinations March 2023

Pharmaceutical Analysis

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 indicators used in Complexometric titration. Write its mechanism and structure.

Short Notes **(10x5=50)**

3. Discuss briefly about acid base concepts.
4. Write note on Kjeldahl method for nitrogen determination.
5. How does an Adsorption indicator works.
6. Explain about theory of precipitation.
7. Note on gravimetric analysis of calcium as calcium oxalate.
8. Explain the method for calculating the redox potential value.
9. Note on standardization of ceric ammonium sulphate.
10. Explain about Turbidity method in argentometry.
11. Write note on mixed indicator.
12. Explain about Borate buffer.

Answer Briefly **(10x3=30)**

13. How does starch iodide paper work as indicator.
14. Define oxidation and reduction.
15. Write note on buffer capacity.
16. Explain about common ion effect.
17. Write about the uses of significant figures.
18. Differentiate Co-precipitation and Post precipitation.
19. What are primary and secondary standards
20. Note on ionic product of water.
21. Explain about Normal and Molar solutions.
22. Why disodium edentate used instead of EDTA in complexometry.

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