

QP Code: 105008

Reg. No.:

**First B.Pharm (Ayurveda) Degree Supplementary Examinations
April 2018**

Pharmaceutical Analysis

Time: 3 Hours

Max Marks: 100

- Answer all questions

Essay

(2x10=20)

1. Enlist the different type of complexometric titration. Explain displacement type of complexometric titration in detail with suitable examples.
2. What is error. Classify the error and how will you minimize the error.

Short Notes

(10x5=50)

3. Define buffer solution and explain in detail Henderson-Hassel Bach equation for buffer.
4. Describe law of mass action in detail.
5. What is non-aqueous titration. Explain types of non-aqueous solvents.
6. Karl Fischer titration
7. Co-precipitation and post-precipitation.
8. Explain assay principle of boric acid.
9. Explain polyprotic system.
10. How internal redox indicator works. Explain in detail
11. Volhard method of argentometric titration.
12. Explain determination of calcium as calcium oxalate by gravimetric analysis

Answer Briefly

(10x3=30)

13. Explain in detail why phenolphthalein is colorless below pH 8.3 and above pH 13
14. Give the principle of Kjeldahl method.
15. Discuss masking and demasking agent.
16. Differentiate accuracy and precision.
17. Define thermogravimetry and explain thermogravimetric curve.
18. Why buffer is added in complexometric titration. Why acetic acid is added in preparation of perchloric acid
19. Explain conjugated acid and base.
20. Differentiate gravimetric and volumetric analysis.
21. Define monoprotic acid Ligand and buffer capacity
22. Explain principle of oxygen flask combustion method.
