

QP Code: 105008

Reg. No.:

**First B.Pharm (Ayurveda) Degree Regular/Supplementary Examinations
November 2019**

Pharmaceutical Analysis

Time: 3 Hours

Max Marks: 100

- Answer all questions

Essay

(2x10=20)

1. Derive Henderson-Hasselbach equation. Explain the theory of indicators.
2. What are the advantages of gravimetric analysis over volumetry. Explain thermogravimetric analysis in brief.

Short Notes

(10x5=50)

3. What is precipitation titrations and explain the types of precipitation.
4. Explain Karl Fischer method.
5. Calcium assay by gravimetry.
6. Explain Arrhenius concept of acids and bases. What are its advantages.
7. Principle and procedure involved in volhard's method.
8. Explain Gay lussac method.
9. Explain the preparation and standardization of 0.1 N AgNO₃ solution.
10. Explain Mohr's method
11. Role of digestion washing of the precipitates
12. Precision, accuracy and standard deviation

Answer Briefly

(10x3=30)

13. Redox indicators
14. Buffers
15. Define quality control
16. Expression of concentrations.
17. How will you determine pH of a solution. Enumerate different methods.
18. Argentometric titrations
19. Why starch indicator is added near the end point in iodine titration.
20. Preparation of 0.1 N KMnO₄ solution.
21. How to estimate magnesium as "magnesium pyrophosphate"
22. Give one example of each of non-aqueous titration and complex metric titration
