

QP Code: 105008

Reg. No.:

**First B.Pharm (Ayurveda) Degree Supplementary Examinations
November 2021**

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. Discuss theory of acid base indicators taking examples of phenolphthalein and methyl orange as examples.
2. Explain fundamentals of volumetric analysis and describe methods of expressing concentrations.

Short Notes

(10x5=50)

3. What are redox titrations. Enumerate different types of redox titrations with suitable examples.
4. Explain Kjeldahal method of nitrogen determination.
5. Requirements for metal indicators used in complexometry.
6. Mention the role of buffers in pharmaceutical analysis. How will you prepare a basic buffer.
7. Diazotization titrations.
8. Explain the principle involved in iodimetric titrations giving an example.
9. Explain the terms: Normal and molal solutions, equivalent point and end point.
10. Explain Volhard's method.
11. Gasometry
12. Explain significance of quantitative analysis in quality control

Answer Briefly

(10x3=30)

13. Define accuracy and precision.
14. How quality control and quality assurance differs
15. Define digestion and explain co-precipitation.
16. Explain mean deviation.
17. What are primary and secondary standards
18. Explain post precipitation
19. Henderson – Hasselbach equation.
20. Explain mixed indicators
21. How to estimate magnesium as “magnesium pyrophosphate”
22. Ionic product of water.
