

QP Code: 105008

Reg. No.:

**First B.Pharm (Ayurveda) Degree Supplementary Examinations
March (November), 2020
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. What are non-aqueous titrations. Explain in detail the different types of solvents in non-aqueous titrations. Add a note on applications of non-aqueous titrations in drug analysis.
2. Explain the types of errors encountered in quantitative analysis. How will you minimize these errors. Add a note on significant figures, accuracy and precision.

Short Notes

(10x5=50)

3. Principle and procedure for the standardization of 0.05 M iodine solution.
4. Explain adsorption indicator method in precipitation titrations.
5. Explain the determination of calcium as calcium oxalate by gravimetry.
6. Detection of end points in redox titrations.
7. Chromophore theory of indicators.
8. Solubility product and factors affecting it.
9. Explain about the determination of halogens using oxygen flask combustion method.
10. Different methods to express the concentration of a given solution.
11. Neutralization curve for a weak acid and a strong base.
12. Co precipitation and post precipitation.

Answer Briefly

(10x3=30)

13. Different types of complexometric titrations.
14. Define ligand and coordination number.
15. Why high acidity is maintained in redox titrations.
16. Buffer solutions and its importance in drug analysis .
17. What is a universal indicator.
18. Why sodium thiosulphate is not a primary standard.
19. Why is Mohr's method carried out in neutral pH.
20. Explain the applications of diazotization titrations with suitable examples.
21. Explain mean deviation and standard deviation.
22. Amino acid titration.
