

2012 Scheme

QP CODE: 212006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations February 2021

Pharmaceutical Analysis

Time: 3 Hours

Total 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*
- *Write equations wherever necessary.*

Essays

(3x10=30)

1. Construct a titration curve for 0.1M ethanoic acid against 0.1M sodium hydroxide solution with all required calculations and explanations. Suggest a suitable indicator. (pKa of ethanoic acid is 4.8 and its molecular weight is 60)
2. Principle and methods of precipitation titration
3. Explain precipitants, co precipitation and post precipitation with reference to gravimetry.

Short notes

(14x5=70)

4. List the properties of primary standards with suitable examples
5. Explain law of mass action
6. Explain pH of a solution
7. Explain mixed and universal indicators
8. Werner's coordination number. Explain its importance in complexometry
9. Name any two buffers which are commonly used in complexometric titrations and why
10. Explain the principle of non-aqueous titration with an example
11. Explain argentometric titration
12. Enlist and explain the factors affecting the solubility of precipitates
13. Starch indicator
14. Explain the principle of estimation of ascorbic acid using 2,6 dichlorophenol indophenol as a titrant
15. Explain the principle of estimation of barium chloride by gravimetry
16. Explain the preparation and standardization of 0.1M potassium permanganate
17. Explain the principle of determination of sulphur by oxygen flask method
