

QP CODE: 212006 (New Scheme)

Reg. No:

**Second Year B.Pharm Degree Supplementary Examinations
December 2018**

Pharmaceutical Analysis

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essays

(3x10=30)

1. What are the types of errors and methods to reduce them.
2. Define buffer and buffer capacity. Explain how does a mixture of acetic acid and sodium acetate act as buffer
3. Discuss on potassium permanganate as a redox titrant

Short notes

(14x5=70)

4. Define: • accuracy • precision • molarity • molality • calibration
5. Explain any two theories of acids and bases with suitable examples
6. Chromophore theory of indicators with example
7. Explain the theory of non-aqueous titrations. What are its limitations
8. Classify complexometric titrations with suitable examples
9. Stability of complexes
10. What is the use of potassium hydrogen phthalate in non-aqueous titration. Explain in detail
11. What is solubility product and factors influencing solubility
12. Explain the principle of Fajan's method in precipitation titration
13. Explain the principle involved in mercurimetric titrations
14. Why sodium thiosulphate is not a primary standard. How it is standardized
15. Precipitation techniques in gravimetric analysis
16. Co-precipitation and post-precipitation
17. What is Karl Fisher titration. Explain its principle and detection of end point.
