

QP CODE: 202006 (Old Scheme)

Reg. No: .....

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

**Pharmaceutical Analysis  
(2010 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. Discuss the theories of indicators and explain the change of color of acid-base indicators with the change in pH.
2. Describe the various steps involved in gravimetric analysis. Discuss the pharmaceutical applications of gravimetric analysis
3. Explain the various types of complexometric titrations with example. Add a note on methods of endpoint detection in complexometric titrations.

**Short notes**

**(14x5=70)**

4. What are the criteria of a primary and secondary standards
5. Importance of quality control.
6. Common ion effect
7. Law of mass action.
8. Explain about Volhard's method
9. Titration of polyprotic system
10. Types of solvents used in non-aqueous titrations
11. Solubility product
12. Oxygen flask combustion method
13. Redox indicators
14. Difference between iodimetry and iodometry.
15. Explain the concepts of oxidation -reduction
16. Diazotisation titrations
17. Preparation and standardization of 0.1 M perchloric acid.

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