

# **2012 Scheme**

**QP CODE: 212006**

**Reg. No: .....**

**Second Year B.Pharm Degree Supplementary Examinations July 2024**

## **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. Write on the theory and limitations of Non-Aqueous titration. Describe the types of solvents in Non- Aqueous titration.
2. Give Henderson-Hassel bach equation and its importance in acid base titration
3. Give theory, concepts and examples of gravimetric analysis

### **Short notes**

**(14x5=70)**

4. Titration of polyprotic systems.
5. Effect of temperature and solvents on Solubility of precipitates
6. Difference between Iodometry and Iodimetry with examples of each.
7. Detection of end point in complexometric titration
8. Explain the interference of water in Non-aqueous titration
9. Importance of masking and demasking technique
10. Calibration of analytical instrument and its importance
11. Different methods used to express concentration of a solution
12. Preparation and standardisation of 0.1M perchloric acid
13. Gasometry as per IP
14. Give titration method using tetra butyl ammonium hydroxide in toluene-methanol
15. Use of sodium -2,6-dichlorophenol-indophenol in titration with examples
16. Types of complexometric titrations
17. How does moisture determined in drugs

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