

Second Year B.Pharm Degree Supplementary Examinations July 2017

**PHARMACEUTICAL ANALYSIS
(2010 Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. Define law of mass action. Explain the application of law of mass action and common ion effect.
2. Explain the standardization procedure and principle involved in potassium permanganate. Mention the advantages over ceric ammonium sulphate.
3. Define standard oxidation potential and explain about the principle and determination of standard oxidation potential.

Short notes**(14x5=70)**

4. Explain briefly about adsorption indicators.
5. Factors affecting solubility products.
6. Explain about solvents, titrants and indicators used in alkalimetry in non-aqueous titration.
7. Principle involved in the detection of end point in complexometric titrations.
8. Factors influencing stability of complexes.
9. Principle and procedure involved in the assay of calcium and calcium oxalate in gravimetric titrations.
10. Principle and procedure involved in the assay of carbon dioxide in gasometry.
11. Co-precipitation and post-precipitation.
12. Explain about organic and inorganic precipitants with structure and examples.
13. Explain about the determination of halogens by using oxygen flask combustion method.
14. Principle and procedure involved in the preparation and standardization of sodium nitrite solution.
15. Define accuracy and explain about the various methods to analyze accuracy.
16. Mention the importance of buffers in complexometric titrations.
17. Principle and procedure for the standardization of 0.05 M iodine solution.