PY - 403

B.Pharma IV Semester

Examination, June 2013

Pharmaceutical Analysis - I (Theory)

Time : Three Hours

Maximum Marks : 70

Note: 1. Attempt any Five questions.
2. All questions carry equal marks.

1. a) Why calibrations of an instrument is required? 7
   b) Write down significance of pharmaceutical analysis in pharmaceuticals. 7

2. a) Write down the methods for determinations of organic nitrogen in pharmaceutical products. 7
   b) Describe the importance of acid-base titrations in pharmaceutical industries. 7

3. a) Write down principle and procedure for preparation and standardization of acetous perchloric acid. 7
   b) Describe the theoretical principles of Non-aqueous titrations. 7

4. a) Write down pharmaceutical applications, preparation and standardization of potassium iodate titrations. 7
   b) Explain redox reaction. What are the precautions required in the preparation of potassium permanganate. 7

5. a) Write down principle and procedure for the assay of calcium gluconate. 7
   b) Describe p^M indicators. What are the factor in influencing stability of complexes. 7

6. a) Give a comparative study of Mohr and Volhard methods. 7
   b) Explain the principles of potassium thiocyanate titrations. 7

7. a) Describe various precipitation techniques in Gravimetric analysis. 7
   b) Explain various methods for the determinations of end point in sodium nitrite titration. 7

8. Write short notes on any Two of the following : 7x4=14
   a) Amperometry
   b) Polarography
   c) Diazotization titrations.