

Roll No.....

PY-403

B.Pharmacy IV Semester
Examination, June 2016
Pharmaceutical Analysis - I

Time : Three Hours**Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 ii) All parts of each question are to be attempted at one place.
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What is a non-aqueous titration? Provide two suitable examples.
 b) Enlist three acid base indicators with relevant details.
 c) Write the principle of dropping mercury electrode.
 d) What is the principle of gravimetric titrations? Explain using appropriate example.

OR

Explain the principle and application of Iodometric titrations.

2. a) What is a Complexometric titration? Provide two suitable examples.
 b) Enlist indicators used in precipitation titration.
 c) What is the principle of Volhard's Method?
 d) Discuss various types of Disodium edentate titrations with suitable example.

OR

Explain the preparation and standardization of 0.1M Silver Nitrate solution.

3. a) Define Iodometric titrations.
 b) What is Ohm's law?
 c) What are redox indicators?
 d) Discuss the standardization of 0.1M sodium thiosulphate solution.

OR

Explain the principle and application of Mohr's method.

4. a) What is a primary standard solution?
 b) What is a Secondary standard solution?
 c) What is the principle of Kjeldahl method of titration?
 d) How a indicator helps in detection of end point in acid base titration?

OR

Discuss the fundamentals of titration between a strong acid and strong base.

5. a) What are pM indicators?
 b) Write the principle of Diazotization titration.
 c) Write the factors affecting Complexometric titration.
 d) Explain the theory and application of Potentiometric titrations.

OR

What are various types of electrodes used in Potentiometric titrations? Compare Reference and indicator electrode.
