[2]

Total No. of Questions:5]

http://www.rgpvonline.com

http://www.rgpvonline.com

[Total No. of Printed Pages :2

PY-403

B.Pharmacy IV Semester

Examination, December 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.
- What is Ohm's law?
 - b) What is Nernst equation?
 - What is the difference between reference and indicator electrode?
 - Explain the design and working of calomel electrode.

OR

Explain the design and working of hydrogen electrode.

- What is half wave potential?
 - What is diffusion current?
 - What are the advantages of dropping mercury electrode?
 - Discuss the principle of polarography with description of dropping mercury electrode assembly.

OR

Discuss the principle and applications of conductometric titration.

http://www.rgpvonline.com

http://www.rgpvonline.com

- 3. a) Explain the equivalence point of a acid base titration.
 - b) Why Phenolpthalein changes its colour with change of
 - Enlist three acid base indictors with their pH range.
 - Describe pM indicators.

Write a short note on Volhard's method.

- What is the principle of Mohr's method?
 - Enlist the solvents used in non-aqueous titration.
 - Describe three redox indictors.
 - Discuss the preparation and standardization of 0.1M Potassium Permanganate solution.

OR

Discuss diazotization titration.

- Compare Iodometry with Iodimetry.
 - b) Enumerate various factors affecting Complexometric titration.
 - Discuss the principle of gravimetric titration.
 - Discuss the neutralization curve of titration between 0.1 M HCL with 0.1 M NaOH solution.

OR

Discuss the scope and limitations of Non-aqueous titration.

PY-403

PY-403

PTO

http://www.rgpvonline.com

http://www.rgpvonline.com

http://www.rgpvonline.com