DEC-23-0058

BP-102 T (Pharmaceutical Analysis-I)

B.Pharm-1st (PCI)

Time : 3 Hours
Max. Marks : 75

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

SECTION-A (compulsory)

Objective Type Questions. Each containing 2 marks (10×2=20)

Note: answer all the short questions.

1. (a) Write the principle of polarography.

   (b) What are various advantage of hydrogen electrode?

   (c) Define cell potential.

   (d) Writes advantage of gravimetric analysis.

   (e) Define chelating agent with example.

   (f) Define solubility product.

   (g) What is the need of non aqueous titration?

   (h) What do you mean by equivalence point?

   (i) When first edition British pharmacopoeia was published? What are various component of it?

   (j) Define molarity and normality.

SECTION-B

Long answer type questions. Each containing 10 marks (2×10=20)

Note: answer any two questions

2. Write various sources of impurities in medicinal substances.

3. Write principle, working and application of conductometric titration.

4. Write various steps involved in gravimetric analysis.

SECTION-C

Short note answer type question. (7×5=35)

Note: answer any seven questions

5. Write various methods for expression of concentration of liquids.

6. Explain neutralization curve.

7. Write a note on mohr's methods.

8. Define masking and demasking agents.

9. Write principle and applications of diazotization titration.

10. Explain indicator electrode.

11. Write the working and application of dropping mercury electrode.

12. Write the procedure for preparation and standardization of 1N sulphuric acid solution.

13. Write various types of error in pharmaceutical analysis.