

PHARMACEUTICAL ANALYSIS-I

Time: 3 hours**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
 Answering the question in **Part-A** is Compulsory,
 Three Questions should be answered from **Part-B**

PART-A

1. (a) Define titrant, titrate, Indicator, standardization and end point.
(b) What are the Buffer solutions? How do they regulate the pH change?
(c) Write preparation and standardisation of 0.1 N potassium permanganate.
(d) Write a note on Masking & Demasking agents.
(e) What is the difference between Gravimetric & Volumetric analysis?
(f) Give a note on principle & significance of Nitrate titration.

[4+4+3+4+3+4]

PART-B

2. (a) Explain the different sources of error and its minimization technique.
(b) Give an account on rejection of doubtful values.
[8+8]
3. (a) Describe the theory of acid-base indicators in detail.
(b) Explain the assay procedure of acetyl salicylic acid.
(c) Explain the types of solvent system.
[7+6+3]
4. (a) What are the different types of titrations based on the concept of Oxidation & Reduction with examples?
(b) Give a note on indicators in Oxidation & Reduction with examples.
[10+6]
5. (a) Write the titration involving Ammonium thiocyanate & Mercuric nitrate.
(b) Write a note on complexometric titration with EDTA.
[8+8]
6. (a) Discuss in detail about coagulation, digestion, filtration with suitable examples.
(b) Estimate Barium as Barium sulphate.
[8+8]
7. (a) Describe the principles and procedure involved in Karl-fisher titration.
(b) Give an account on gas analysis apparatus and their operations with examples.
[8+8]
