

[BPHARM 0921]

SEPTEMBER 2021  
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2003

B.PHARM. DEGREE EXAMINATION  
PCI Regulation 2017 – SEMESTER I  
PAPER II – PHARMACEUTICAL ANALYSIS - I  
*Q.P. Code: 562003*

Time: Three hours

Maximum: 75 Marks

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Explain in detail about the following
  - a) Sources of Impurities in Medicinal agents.
  - b) Estimation of Sodium chloride by Mohr's method.
2. What is Gravimetry? Explain the steps involved in Gravimetry.
3. Write the principle of Complexometric titration. How will you estimate Magnesium sulphate and Calcium gluconate by Complexometry?

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Define Acids and Bases. Explain Neutralization curves in Acid-base titration.
2. How will you estimate Barium sulphate?
3. What are the various applications of Polarography?
4. Discuss in detail about Modified Volhard's method.
5. What are Non aqueous solvents? Explain the principle and procedure involved in the estimation of Sodium benzoate by Non aqueous titration.
6. Write briefly about Diazotisation titration.
7. Write a detailed note on the preparation and standardisation of Ceric ammonium sulphate.
8. Describe the principle, reaction and procedure involved in the Limit test for Chloride.
9. Explain the construction and working of Glass Electrode.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Define Accuracy.
2. Write any two applications of Potentiometry.
3. Explain the principle of Redox titration.
4. Define Half wave potential.
5. What do you mean by Co-precipitation?
6. Define Primary standard. Give example.
7. Define Normality.
8. What is Ilkovic equation?
9. Define Indicators.
10. What are Chelating agents?