



(LP 4257)

**AUGUST 2019**

Sub. Code: 4257

**B.PHARM. DEGREE EXAMINATION  
SECOND YEAR  
PAPER II – PHARMACEUTICAL ANALYSIS & PHYSICAL CHEMISTRY**

*Q.P. Code: 564257*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer All Questions**

**SECTION-A**

**(PHARMACEUTICAL ANALYSIS)**

**I. Elaborate on:** (1 x 20 = 20)

1. Define Precipitation Titration. Briefly explain each type with indicators used in the titration.

**II. Write notes on:** (4 x 5 = 20)

1. Write a note on Masking and Demasking agents.
2. Explain about Diazotization titration.
3. Write a note on Volhards method.
4. Write a note on various steps involved in Gravimetric Analysis.

**III. Short answers on:** (5 x 2 = 10)

1. Buffer solution.
2. Law of Mass action.
3. Acid value.
4. Define Precision.
5. Redox Potential.

**SECTION-B**

**(PHYSICAL CHEMISTRY)**

**I. Elaborate on:** (1 x 20 = 20)

- a) Explain in detail about the determination of the elevation of boiling point.
- b) Explain the factors affecting adsorption and its applications in pharmacy.

**II. Write notes on:** (4 x 5 = 20)

1. Write a note on Catalysts.
2. Explain the principle involved in Polarimetry.
3. Give a short note on phase rule and its applications.
4. Define order and molecularity of reaction and explain the factors affecting rate of chemical reaction.

**III. Short answers on:** (5 x 2 = 10)

1. Ideal solution.
2. Second law of thermodynamics.
3. Exo and Endo thermic reactions.
4. Parachor.
5. Enthalpy.

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