

(LE 4257)

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SECOND YEAR B.PHARM. EXAM

PAPER II – PHARMACEUTICAL ANALYSIS & PHYSICAL CHEMISTRY

O.P. Code: 564257

Time: Three Hours Maximum: 100 marks

Answer All Questions Answer Section-A and B in separate Answer Book SECTION-A

(Pharmaceutical Analysis)

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

a) Explain the various types of solvents used in Non – aqueous titration.

b) Write in detail about preparation and standardisation of acetous perchloric acid including the precautions to be taken.

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

1. Write notes on Modified Volhard's metho

- Explain choice of indicators in acid base titrations.
- Give an account on the preparation and standardisation of cerric ammonium sulphate.
- 4. Write notes on pM indicators.

III. Short Answers: (5 x 2 =10)

- Define redox potential.
- 2. What is Lewis theory of acids and bases?
- Define saponification value.
- What is iodometry?.
- 5. Define normality and molarity.

SECTION-B (Physical Chemistry)

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

- a) Define order of reaction. Explain the various methods for determining the order of reaction.
 - b) State and explain First Law of Thermodynamics

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

- 1. Write a note on characteristics of catalyst.
- State Raoult's law.
- 3. Calculate the half life of first order reaction.
- Explain Partition co-efficient with limitation.

III. Short Answers: (5 x 2 =10)

- 1. What is Parachor?
- 2. Define Eutectic point.
- 3. What are Positive and Negative Catalysts?
- Define Triple Point.
- Define Enthalpy of formation.

