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(LQ 4257) FEBRUARY 2020 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: $(1 \times 20 = 20)$

 a) What is the underlying principle of Complexometric titration? Explain different types of Complexometric titration with suitable example.

What is masking and demasking agents with reference to complexometric titration.
Give specific examples to justify your statements.

II. Write notes on: $(4 \times 5 = 20)$

- 1. Solvent used in non-aqueous titration.
- Fajans method.
- 3. Kjeldahl method of nitrogen estimation.
- Saponification value.

III. Short answers on: $(5 \times 2 = 10)$

- Gasometry.
- Redox indicato
- Neutralization curve
- Organic precipitant.
- Precision.

SECTION-B (PHYSICAL CHEMISTRY)

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

a) Define Debye-Huckel ory. What are different types of solution give examples.

Explain about Raoult's Law and its limitations.

II. Write notes on: $(4 \times 5 = 20)$

- 1. Joule-Thomson effect.
- 2. Bomb calorimete
- Freundlich Adsorption Isorm.
- Refractometry.

III. Short answers on: $(5 \times 2 = 10)$

- Order of reaction.
- Biocatalyst.
- First Law of rmodynamics.
- 4. Exormic reaction.
- Partition coefficient.

