

(LD 4257)

www.FirstRanker.com AUGUST 2013

www.FirstRanker.com Sub. Code: 4257

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)

- 1.a) What is buffer solution and explain about the buffer mixture of a weak acid and weak base and its salts.
- b) Explain in detail about the Non aqueous titrations.

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

- 1. Write a note on diazotization titrations.
- Explain complexometric titrations.
- 3. Write a note on Mohrs method and Fajan's metho
- Write a note on standardization of perchloric aci

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

- Define precision.
- Define iodimetry.
- Define law of mass action.
- 4. Calibration of volumetric apparatus.
- 5.Choice of indicators.

SECTION-B (Physical Chemistry)

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

- a)Define rate of reaction clarify with suitable examples and derive the equation for first order reaction.
 - Explain Hess's law of constant heat of summation.

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

- Define Colligative properties.
- 2.Joule-Thomson effect.
- Define solutions with its types.
- 4. Write about the factors affecting the rate of chemical reaction.

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

- 1. Trouton's rule.
- 2.Define Phase rule.
- Freundlisch adsorbtion isotherm.
- Enthalpy of combustion.
- Second law of thermodynamics.

