

(LF 4257)

AUGUST 2014

Sub. Code: 4257

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

Q.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. Essay: (2x10=20)

1. a) Explain in detail about theory of acid-base indicators with example.
- b) Give an account on diazotization titration.

II. Short notes: (4x5=20)

1. Write note on calibration of apparatus
2. Preparation and standardization of perchloric acid
3. P^M Indicators
4. Mohr's method

III. Short Answers: (5x2=10)

1. Buffer
2. Quality control
3. Redox Indicator
4. Chelation
5. Saponification value

SECTION-B

(Physical Chemistry)

I. Essay: (2x10=20)

1. a) Explain about methods of determination of depression of freezing point
- b) Theories of rate of reaction.

II. Short notes: (4x5=20)

1. Explain bond energy with example
2. First law of thermodynamics
3. Langmuir isotherm
4. Theory of catalysis

III. Short Answers: (5x2=10)

1. Define Spontaneous process
2. Colligative properties with example
3. Exo and Endo thermic reactions
4. Refractive index
5. Phase
