



(LG 4256)

FEBRUARY 2015

Sub. Code: 4256

**B.PHARM. EXAMINATION
SECOND YEAR
PAPER I – PHYSICAL PHARMACEUTICS**

Q.P. Code: 564256

Time: Three hours

Maximum: 100 marks

I. Essay:

(2 x 20 = 40)

1. a) What are colloids? Explain the stability of colloids using DLVO theory.
How are the colloids protected?
b) Define dissolution. Write about the factors affecting rate of dissolution.
2. a) What are the basic properties of a powder? Explain any one method to determine one basic property.
b) Define complexes. Classify the complexes with suitable example. Write about the inclusion complexes.

I. Short notes:

(8 x 5 = 40)

1. Classification of flocculating agents
2. Determination of expiry date
3. Classification of viscometers
4. Stability of emulsions
5. Electric properties of interface
6. Isotonic solutions
7. Significance of protein binding
8. Types of suspensions

III. Short answers:

(10 x 2 = 20)

1. Gibb's adsorption equation
2. Spreading coefficient
3. Endocytosis
4. Ultra centrifuge
5. Bancraft rule
6. Ferrocene
7. CMC
8. Bulges and spurs
9. Thioxotrophy
10. Order of reaction

