



(LL 4256)

AUGUST 2017

Sub. Code: 4256

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

Q.P. Code: 564256

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define complexation and classify complexes with examples. Explain the methods to analyse complexes.
2. Describe and explain the theories of Emulsification. Write a note on stability problem in Emulsion.

II. Write notes on:

(8 x 5 = 40)

1. Define and classify surfactants with suitable examples.
2. Write short notes on different colloidal systems.
3. Describe cone and plate viscometer.
4. Discuss different experimental methods of determining protein binding of drug.
5. Define suspension. What are the ideal properties of suspension?
6. Describe coulter – counter method.
7. Discuss steady-state diffusion.
8. Write the methods to determine the order of reaction.

III. Short answers on:

(10 x 2 = 20)

1. Factors influencing CMC.
2. Overages.
3. Edmundson equation.
4. Examples of pharmaceutical buffers.
5. Rheopexy.
6. Thixotropy.
7. Stoke's law.
8. Protective colloids.
9. Half life.
10. Noyes whitney equation.
