

(LD 4256)

AUGUST 2013

Sub. Code: 4256

SECOND YEAR B.PHARM. EXAM
PAPER I – PHYSICAL PHARMAEUTICS
Q.P. Code: 564256

Time: Three Hours

Maximum: 100 marks

I. Elaborate on: (2X20=40)

1. a) Explain objectives, procedures and limitations of accelerated stability testing.
b) Explain briefly on degradation and stabilization of pharmaceutical products.
2. What is complexation and brief about different types of complexes?
Explain any two methods of complex analysis.

II. Write notes on: (8X5=40)

1. Briefly explain the diffusion principles in biological systems
2. Write short notes on different colloidal systems
3. Explain protein binding of drugs.
4. Discuss Sedimentation technique that used for particle size analysis.
5. Describe Cone and Plate viscometer
6. Explain instabilities of emulsion
7. Explain pharmaceutical applications of surfactants according to HLB values.
8. Discuss shear thickening systems with suitable examples.

III. Short Answers on: (10X2=20)

1. Factors causing breaking in emulsion
2. Zeta potential
3. Noyes Whitney equation
4. Define Yield value in plastic systems
5. Thixotrophy
6. Porosity
7. Define Glidants with suitable examples.
8. Buffer capacity
9. Dissolution
10. Factors influencing CMC
