

[KZ 4256]

Sub. Code : 4256

SECOND B.PHARM. EXAMINATION
Paper I – PHYSICAL PHARMACEUTICS

Q.P. Code : 564256

Time : Three hours

Maximum: 100 Marks

Answer ALL questions.

I. LONG ESSAYS

(2 x 20 = 40)

1. a) Explain Critical micellar concentration, theories of micelle formation.
b) Electrical properties of interfaces.
2. Write about the various decomposition and stabilization study of medicinal agents.

II. SHORT NOTES

(8 x 5 = 40)

1. Noyes Whitney equation.
2. Colloidal properties.
3. Settling of suspensions.
4. First order reaction.
5. Explain the term Micromeritics.
6. Pharmaceutical applications of Rheology.
7. Give a brief account of inclusion compounds.
8. pH determination and its applications.

III. SHORT ANSWERS

(10 x 2 = 20)

1. Define diffusion.
2. Types of colloids.
3. Deflocculating agents.
4. Factors influencing the physical stability of emulsion.
5. Accelerated stability studies.
6. Methods of determining surface area.
7. Newtonian system. 8. Binding equilibria.
9. Give examples for polymer complexes.
10. Define sedimentation volume.
