

PY - 202
B.Pharm. II Semester
Examination, June 2013
Pharmaceutics-II (Physical Pharmacy)

Time : Three Hours

Maximum Marks : 70

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Note: Attempt any five questions. All questions carry equal marks.

1. a) Discuss particle size and size distribution.
b) Give detail account on various methods used for determination of particle size. 7×2
2. a) Give detail account on influence of hydrotropic agents on solubility of drugs.
b) Describe ideal solutions and phase diagram. 7×2
3. a) Explain surface free energy.
b) How surface and interfacial tension will be measured. 7×2
4. a) What do you mean by Rheology. Give detail account on Newton's Law of flow.
b) Discuss Thixotropy in detail 7×2
5. a) Give classification of complexes.
b) Discuss factors affecting complexation and protein binding. 7×2
6. a) What do you mean by common Ion effect? Describe the buffer equation.
b) Give detail account on In-vivo biologic buffer system. 7×2
7. a) Discuss Emulsion types and theories of emulsification.
b) Give detail account on classification of pharmaceutical semisolids. 7×2
8. Write short notes on any two: 7×2
 - a) Hixson-Crowell cube root law.
 - b) Drugs release in polymer matrices.
 - c) Pharmaceutical applications of complexation.

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