

Second Year B.Pharm Degree Supplementary Examinations - July 2016

**PHARMACEUTICS – II  
(2010 SCHEME)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. Describe the methods to determine particle size and particle size distribution.
2. Mention the different types of colloidal systems and discuss its electrical property.
3. Elaborate the diffusion process of drugs through membranes and its methods of assessment.

**Short notes**

**(14x5=70)**

4. Liquid interfaces.
5. Surface active agents.
6. Controlled flocculation.
7. Protein drug binding.
8. Effect of viscosity on sedimentation rate.
9. Prediction of shelf life.
10. Hausner ratio.
11. Types of complexation.
12. Degradation pathways of drugs.
13. Angle of repose and its applications in pharmacy
14. Surface free energy.
15. Ostwald viscometer.
16. Evaluation of physical stability of emulsions.
17. Bulk density and true density.

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