

**Second Year B.Pharm Degree Supplementary Examinations**  
**June 2019**

**Pharmaceutics II**

**(2012 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essays**

**(3x10=30)**

1. Explain Flocculation, Deflocculation and Controlled Flocculation processes in the formulation of suspensions
2. Describe stability problems of emulsions
3. Explain different methods of determination of particle size.

**Short notes**

**(14x5=70)**

4. Emulsifying agents
5. Explanation on thixotropy and dilatant flow systems
6. Description on any TWO types of viscometers
7. Pseudo first order and first order reactions
8. Brief description on accelerated stability testing
9. Purification of colloidal systems
10. Explanation on determination of angle of repose.
11. Any one complexation method used to increase the solubility of drugs
12. Explanation on any one type of dissolution testing apparatus
13. Fick's laws of diffusion
14. HLB classification system
15. Types of colloids
16. Any one method used to determine the surface tension
17. Optical properties of colloids

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