

Second Year B.Pharm Degree Supplementary Examinations July 2018

**Pharmaceutics – II
(2010 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essays

(3x10=30)

1. Describe the principle and procedure involved in accelerated stability study.
2. Explain the different optical properties of colloidal dispersion systems.
3. Explain the process of viscosity measurement by using capillary viscometer

Short notes

(14x5=70)

4. Describe type I dissolution apparatus with a labelled diagram.
5. Mention the applications of 'diffusion'.
6. Discuss on HLB classification system for surfactants.
7. Explain Freundlich adsorption isotherm
8. Explain the characteristics of flocculated suspension.
9. What is 'creaming' in emulsions. How is it prevented.
10. Explain the principle of 'Falling sphere viscometer'.
11. Explain the terms 'plastic viscosity' and 'yield value' with suitable example and rheogram.
12. Deduce an equation for determining the specific reaction rate constant of a first order reaction.
13. Explain any one factor affecting rate of reaction.
14. Explain different types of densities in powders.
15. Discuss the different factors affecting flow properties in powders.
16. Chelates.
17. Explain monomolecular inclusion complexes.
