

Second Year B.Pharm Degree Supplementary Examinations
June 2019**Pharmaceutics – II**
(2010 Scheme)**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essays**(3x10=30)**

1. Discuss the various means by which controlled flocculation can be achieved.
2. Explain the kinetics of protein binding.
3. Describe different types of non-Newtonian flow with rheograms, mechanisms and suitable examples

Short notes**(14x5=70)**

4. Explain Fick's first law of diffusion with its applications in pharmacy.
5. Mention any five factors affecting dissolution of drug.
6. Discuss on 'micellar solubilization' of drugs.
7. Differentiate between type I and type II adsorption isotherms.
8. Explain the salient features of 'lyophilic colloids'.
9. Classify and describe the types of emulsions with suitable examples.
10. Explain the principle of 'Cup and Bob viscometer'.
11. Explain the term 'thixotropy' and explain its applications in pharmacy.
12. Differentiate between zero order and first order reaction by giving suitable example.
13. Explain the effect of temperature on the rate of reaction.
14. Explain different types of porosities in powders.
15. Compare and contrast 'sieving' and 'microscopic' methods of size distribution analysis.
16. Explain the term spreading coefficient.
17. Mention the applications of drug-complexation.
