

**Second Year B.Pharm Degree Supplementary Examinations
December 2018**

Pharmaceutics II

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essays

(3x10=30)

1. Describe the electrical properties of interphases with the help of a neat diagram. Mention its significance.
2. Discuss the theories of emulsification.
3. Determination of surface area of powders.

Short notes

(14x5=70)

4. In vitro dissolution study apparatus.
5. Spreading coefficient and its applications.
6. HLB value of surfactants.
7. Optical properties of colloids.
8. First order reactions.
9. Purification of colloids
10. Andersen apparatus
11. Angle of Repose.
12. Applications of complexation.
13. Limitations of accelerated stability studies
14. Fick's Laws of diffusion
15. Flocculation in suspensions.
16. Types of emulsions and identification tests
17. Ostwald's viscometer.
