

# 2010 Scheme

QP CODE: 203006

Reg. No: .....

## Second Year B.Pharm Degree Supplementary Examinations December 2019

### Pharmaceutics – II

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

#### Essays

(3x10=30)

1. Explain in detail about the different factors which affect the dissolution rate.
2. Define the term Colloids. Discuss in detail about the kinetic properties of colloids.
3. Demonstrate the various pharmaceutical applications of adsorption of solid/liquid interface.

#### Short notes

(14x5=70)

4. Define Fick's first law of diffusion and write a note on steady state diffusion.
5. Elaborate the dissolution apparatus I as per Indian Pharmacopoeia.
6. Write a detailed procedure for the determination of surface tension by Drop method.
7. HLB scale of surfactants.
8. Differentiate between lyophilic and lyophobic colloids.
9. Enlist the ideal properties of an emulsifying agent.
10. Explain different sedimentation parameters of suspension.
11. Give a detailed procedure for the measurement of viscosity by Ostwald's viscometer.
12. Define order of a chemical reaction. Derive an expression for first order rate constant.
13. "Coulter counter"
14. What are micrometrics. Write a note on its pharmaceutical applications.
15. Explain bulk density and true density of powder
16. Classify different complexes
17. Write the significance of protein binding of drugs

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