

QP Code: 322006

Reg. No.....

**Third Semester B.Pharm Degree Regular/Supplementary
Examinations January 2020**

Physical Pharmaceutics I

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. List the derived properties of powder. How they are evaluated.
2. Explain and discuss the solubility method and pH titration methods of analysis of complexation.

Short Notes

(7x5=35)

3. What are the different methods for adjustment of isotonicity.
4. What is protein binding. Write its influence on drug activity.
5. Importance and uses of buffers in pharmaceutical and biological systems.
6. Aerosols and its applications in pharmacy.
7. List the factors influencing the solubility of drugs. Explain any two.
8. What is ideal and real solution. What is its importance.
9. Define latent heat, vapour pressure, sublimation and critical point.

Answer Briefly

(10x2=20)

10. Define dipole moment.
11. Explain angle of repose.
12. Any two advantages and disadvantages of microscopic method of study of powders.
13. What is buffer equation and buffer capacity.
14. What is optical rotation and its importance in pharmacy.
15. List the limitation of distribution law.
16. What is refractive index. What is its use in pharmacy.
17. What are the applications of Coulter-counter apparatus in pharmacy.
18. What is number and weight distribution of particle size.
19. List the methods to determine surface area.
