

QP Code: 322006

Reg. No.....

**Third Semester B.Pharm Degree Supplementary Examinations
June 2019**

Physical Pharmaceutics I

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays

(2x10=20)

1. State and explain distribution law along with its limitations. What are its applications.
2. Explain the derived properties of powders.

Short Notes

(7x5=35)

3. Explain Fick's laws of diffusion
4. Factors affecting the solubility of drugs.
5. Liquid complexes
6. Air permeability method.
7. Explain the method of continuous variation for the analysis of complexes.
8. Give the applications of pharmaceutical buffers
9. Metal complexes in biological system.

Answer Briefly

(10x2=20)

10. Polymorphism.
11. Donor acceptor ratio.
12. Buffer equation.
13. Inclusion complex.
14. Raoults law.
15. Dipole moment
16. Critical point
17. Metal olefin complexes.
18. Vapour pressure
19. Optical rotation
