QP Code: 322006	Reg. No
4	

Third Semester B.Pharm Degree Supplementary Examinations December 2020

Physical Pharmaceutics I

(2017 Scheme)

Time: 3 Hours Max. Marks: 75

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers.
- Draw diagrams wherever necessary

Essays (2x10=20)

- 1. Explain the factors influencing the solubility of drugs with a quantitative approach.
- 2. What is buffer capacity. Explain the various methods for adjusting tonicity and the importance of pharmaceutical buffers

Short Notes (7x5=35)

- 3. Briefly explain the diffusion principles in biological systems.
- 4. Explain protein binding of drugs.
- 5. Explain Andreasen's pipette method of determining particle size.
- 6. Explain the phase diagram of a eutectic system.
- 7. Applications of dipole moment.
- 8. Polymer complex.
- 9. Explain pH titration method

Answer Briefly (10x2=20)

- 10. Optical rotation
- 11.Raoult's Law.
- 12. Glassy states
- 13. Applications of inclusion complexes.
- 14. Define specific surface. Give its importance
- 15. Angle of repose
- 16. Electrometric pH determination
- 17. Critical point
- 18. Fick's laws of diffusion
- 19. Refractive index
