

QP Code: 322006

Reg. No.....

**Third Semester B. Pharm Degree Supplementary Examinations
April 2022**

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. Define micromeritics. Explain any two methods for determining particle size of a sample.
2. Define complexation. Classify different types of complexes. Explain any two methods of complex analysis

Short Notes

(7x5=35)

3. Eutectic mixtures.
4. Explain pH determination and its applications.
5. Solvation and association.
6. Explain critical solution temperature and its applications.
7. Explain the methods of determining flow properties of a given sample.
8. Raoult's law and explain its deviations.
9. Determination and application of dielectric constant.

Answer Briefly

(10x2=20)

10. Buffer capacity.
11. Refractive index
12. Liquid crystals.
13. Stability constants.
14. Phase rule
15. Particle number
16. Protein binding of drugs.
17. Dipole moment
18. Propellants used in aerosols.
19. Sorenson's pH scale
