

QP Code: 322006

Reg. No.....

**Third Semester B.Pharm Degree Regular/Supplementary
Examinations October 2021**

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 any two methods for the analysis of complexes.
2. Examine how particle volume is measured by electrical method.

Short Notes

(7x5=35)

3. Outline the merits and demerits of microscopic technique in particle size distribution and how it can be improved.
4. Evaluate the effect of temperature with respect to solubility.
5. Explain distribution law and its applications.
6. What are solids. How amorphous and crystalline solids are distinguished.
7. Humidity and its importance in pharmaceutical science.
8. Applications of complexation.
9. Explain isotonic solution. Give a detailed method of cryoscopy technique.

Answer Briefly

(10x2=20)

10. Differentiate between solution and binary solution.
11. Classify the solution based on liquids in liquids.
12. How gases can be liquefied.
13. Define refractive index and mention any two applications of the same.
14. Enlist the methods available for particle size analysis.
15. Explain porosity.
16. Dissociation constant.
17. Particle shape.
18. Stability constant
19. Buffer equation and buffer capacity
