

QP Code: 423006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations
July 2023**

Physical Pharmaceutics II

(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 different non-Newtonian systems with graphs, mechanisms and suitable examples
2. What are different methods of determination of surface tension. Explain any two methods in detail

Short Notes

(7x5=35)

3. DLVO theory
4. Write a note on spreading co-efficient
5. Zeta potential and its applications
6. Discuss the applications of colloidal dispersions
7. Classify surfactants with examples
8. Differentiate flocculated and deflocculated suspensions
9. Explain the evaluation parameters for suspension

Answer Briefly

(10x2=20)

10. Role of wetting agents
11. What is sedimentation volume
12. Identification tests for emulsion
13. What is Brownian movement
14. What is the influence of temperature on drug degradation
15. Differentiate surface and interfacial tension
16. What is plug flow
17. Name the methods of preparation of colloids
18. Mentions the factors affecting viscosity
19. Differentiate order and molecularity of reaction
