

QP Code: 423006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations
May 2024**

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 the physical and chemical factors influencing degradation of drugs and their prevention.
2. Explain in detail about controlled flocculation of suspension.

Short Notes

(7x5=35)

3. What is hydrolysis and explain the methods to prevent it.
4. Explain any two methods for the measurement of viscosity of fluids
5. What is physical stability and explain the methods to assess the physical stability of suspension.
6. Derive Langmuir adsorption equation and explain with graph.
7. Write a note on HLB number of a surfactant and explain any one method to determine the same.
8. Explain the general characteristics of colloids.
9. Write a note on Donnan membrane equilibrium.

Answer Briefly

(10x2=20)

10. What are Newtonian systems.
11. How the presence of moisture leads to degradation of drug.
12. What is Plug Flow.
13. Name the types of deformation.
14. What are structured vehicles. Give example
15. What is HLB scale.
16. Define Nernst and Zeta Potential.
17. What are association colloids.
18. What are protective colloids. Give example.
19. Define gold number.
