

QP Code: 423006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary
Examinations February 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 various adsorption isotherms with a graphical representation
2. Classify colloids and explain its general properties.

Short Notes

(7x5=35)

3. What is hydrolysis and explain the method of prevention of hydrolysis
4. Illustrate falling sphere viscometer with description of its working
5. Write a note on HLB number of surfactants. Explain any one method for the determination of the same
6. Derive an equation for first order reaction rate constant
7. Explain accelerated stability studies
8. Enlist advantages and disadvantages of emulsion
9. Discuss the concept of controlled flocculation

Answer Briefly

(10x2=20)

10. Define gold number
11. Classify viscometer with examples
12. What are surfactants and mention their applications
13. Define contact angle
14. Classify emulsions
15. What is a rheogram
16. Define shelf life
17. Define first and second order of reaction
18. What are Newtonian liquids. Give examples
19. What is chemical adsorption
