

QP Code: 423006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary
Examinations November 2025
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 any two methods of determination of surface tension
2. Discuss non-Newtonian systems with suitable graphs

Short Notes

(7x5=35)

3. Write a note on dialysis for purification of colloids
4. Differentiate flocculated and deflocculated suspension
5. Discuss various measures to protect a drug from oxidation
6. Write a note on spreading co-efficient
7. Explain thixotropy
8. Draw and explain Ostwald's viscometer
9. Classify emulsifying agents with examples

Answer Briefly

(10x2=20)

10. Stress and strain
11. What is peptization
12. Gold number
13. Define contact angle
14. What is shelf life
15. What is Brownian movement
16. Define zero order reaction
17. What is surface free energy
18. Differentiate order and molecularity of reaction
19. What is micro emulsion
