

QP Code: 423006

Reg. No.....

**Fourth Semester B. Pharm Degree Supplementary Examinations
December 2019
Physical Pharmaceutics II
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Define viscosity. Explain thixotropy with rheogram. How will you determine flow properties using Ostwald viscometer.
2. Define emulsion. Classify them and explain theories of emulsification with a neat diagram.

Short Notes

(7x5=35)

3. Accelerated stability testing.
4. Explain the methods to determine order of reaction.
5. Explain the different methods for purification of colloids.
6. HLB scale.
7. Explain role of zeta potential in formulation of suspensions.
8. Explain the determination of surface tension of liquids by capillary rise method
9. Association colloids.

Answer Briefly

(10x2=20)

10. Brownian movement.
11. Define creaming of emulsions.
12. Tyndall effect of colloids.
13. Define surface free energy.
14. What are protective colloids.
15. What is dilatant flow. Give example.
16. Define half life.
17. Define zero order reaction with example.
18. Elastic deformation.
19. What are structured vehicles.
