2012 Scheme

Second Year B.Pharm Degree Supplementary Examinations July 2025

Pharmaceutics II

Time: 3 Hours   **Total Marks: 100**

- *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*
- *Write equations wherever necessary.*

Essays   (3x10=30)

1. Describe emulsification theories, classification of emulsifiers and stability problems in emulsions.

2. Explain viscosity measurement with suitable viscometers.

3. Discuss stability testing, shelf-life determination and accelerated stability studies.

Short notes   (14x5=70)

4. Explain factors affecting dissolution.

5. Write a note on diffusion mechanism.

6. Write a note on HLB value.

7. Define spreading coefficient and its role in pharmacy.

8. What is a colloid. Give types and examples.

9. Explain sedimentation volume and its significance.

10. Determination of surface tension using stalagmometer.

11. Explain the various types of rheological system with examples.

12. Define first-order kinetics. Give an example.

13. Discuss the methods used for purification of colloidal dispersions.

14. Define derived properties of powders.

15. Explain air permeability method for particle surface area determination.

16. Write about protein-drug binding equilibrium.

17. Explain any two applications of complexation in pharmacy.

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