2012 Scheme

Second Year B.Pharm Degree Supplementary Examinations February 2021

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. What do you mean by accelerated stability studies. Describe the principle behind it. What are its limitations.

2. Explain Newtonian systems. Draw and explain the rheograms for Newtonian and non- Newtonian materials with examples for each type.

3. What is an adsorption isotherm and deduce Langmuir adsorption isotherm. Give the different types of adsorption isotherms.

Short notes   **(14x5=70)**

4. Electrical properties of interface.

5. Explain theory of sedimentation in suspension.

6. Construction and working of coulter-counter.

7. Explain Ficks laws of diffusion.

8. How do you carry out dissolution studies

9. Explain phase volume ratio.

10. Differentiate between Flocculation, De-flocculation and Controlled Flocculation.

11. Define half-life and derive an equation for first order half-life.

12. Stability problems in emulsions.

13. Stabilization against hydrolytic decomposition.

14. Construction and working of falling sphere viscometer.

15. Define and explain Carr's index and Hausner ratio.

16. Explain any one method for determination of surface tension.

17. Thixotropic systems.

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