2010 Scheme

Second Year B.Pharm Degree Supplementary Examinations
July 2024
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. Mention different types of Non-Newtonian systems, discuss their flow properties with rheogram.

2. Explain particle size analysis by Optical microscopic method with its advantages and disadvantages.

3. Classify inclusion complexes. Describe the nature of intermolecular interactions with suitable examples for each type.

Short notes   (14x5=70)

4. Explain the working principle of Cup and Bob viscometer.

5. Describe different types of densities of powders/ granules.

6. Discuss the impact of drug-protein binding on pharmacokinetics of particular drug.

7. Explain various laws of diffusion.

8. Discuss any five factors affecting drug dissolution study.

9. Define HLB and describe any two methods to determine the same.

10. Explain Freundlich adsorption isotherm.

11. Enumerate the applications of amphiphiles in pharmacy.

12. Describe the properties of lyophilic colloids. Give an example for the same.

13. Mention any limitations of 'Pharmaceutical Suspensions'.

14. What is creaming in emulsions. How is it prevented in pharmaceutical emulsions.

15. Deduce an equation for determining the specific rate constant of a first order reaction.

16. How are the drugs stabilized against oxidation. Give suitable examples.

17. Explain the influence of solvent, pH and buffers on drug degradation.

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