Second Year B.Pharm Degree Supplementary Examinations
December 2017
PHARMACEUTICS II

(2012 Scheme)

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

- Answer all Questions.
- Write equations wherever necessary.

Essay   **(3x10=30)**

1. Enumerate the various physical and chemical stability problems in pharmaceutical dosage forms and the methods to overcome the same

2. Explain the theories of emulsification

3. Explain Newtonian and non-Newtonian systems and explain one method to determine the viscosity of non-Newtonian systems.

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

4. Zeta potential

5. HLB classification

6. Ficks laws of diffusion.

7. Adsorption method in determining surface area of powders

8. Types of colloids

9. Applications of complexes in pharmacy

10. Spreading coefficient.

11. Methods to determine order of reactions.

12. Selection of emulsifying agents

13. I.P. dissolution apparatus.

14. Stability problems of emulsion

15. Factors affecting dissolution

16. Stability in colloidal systems.

17. Coulter counter

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