2012 Scheme

QP CODE:213006   Reg. No: ……………………..

Second Year B.Pharm Degree Supplementary Examinations July 2022

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. Explain theory of micelle formation. Add note on factors influencing critical micelle concentration. Write note on Hydrophilic–lipophilic balance (HLB) scale.

2. Define micromeritics. Explain the various methods to determine particle size. analysis.

3. What is adsorption isotherm and deduce Freundlich Adsorption Isotherm. Give the different types of adsorption isotherms.

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

4. Explain the Ficks laws of diffusion.
5. Construction and working of Cone and Plate viscometer.
6. Carr's index and Hausner Ratio.
7. Explain the theory of sedimentation for suspensions.
8. Explain Non Newtonian systems.
9. Evaluation of Emulsions.
10. Flow properties of powders.
11. Explain kinetics of Protein-drug binding.
12. Stability problems in emulsions.
13. Explain surface free energy and spreading coefficient.
14. Explain Brownian movement and Tyndall effect.
15. Inclusion complexes.
16. Half life determination and zero order kinetics.
17. What are colloids and briefly explain its types.

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