2010 Scheme

QP CODE: 203006 Reg. No: ……………………..

Second Year B.Pharm Degree Supplementary Examinations
February 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. Define colloidal dispersion and discuss various optical properties of colloids.

2. Explain the different methods to determine the order of a reaction.

3. Discuss the formation of electrical double layer around the dispersed particle with neat labelled diagram.

Short notes (14x5=70)

4. Explain the Fick's first Law of diffusion and its application in pharmacy.

5. Describe micellar solubilization.

6. Describe the flow property of plastic system with rheogram.

7. Explain the working principle of Cone and Plate viscometer.

8. Differentiate between Microscopic and Sieving method of particle size distribution.

9. Describe Paddle type dissolution apparatus with labelled diagram.

10. Explain the properties of Newtonian system.

11. Discuss on sedimentation parameters.

12. Mention the limitations of accelerated stability studies.

13. Discuss different types of porosities.

14. Define angle of repose and explain any one method to determine it.

15. Discuss on chelates and its applications.

16. Explain 'Continuous variation method' to determine stoichiometric ratio in the analysis of complexation.

17. Explain the kinetics of Protein binding.

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