

2010 Scheme

QP CODE: 203006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations July 2023

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. State and derive Langmuir adsorption isotherm.
2. Describe the methodology of accelerated stability studies. Mention its limitations.
3. Write the principle and method involved in the determination of particle size in a powder using Andreasen apparatus.

Short notes

(14x5=70)

4. Discuss the factors influencing the surface tension.
5. Differentiate between zero and first order reactions with suitable examples.
6. Carr's index and Hausner ratio.
7. Discuss the application of diffusion process/studies in pharmacy.
8. Distinguish between pseudoplastic and dilatant systems with suitable examples.
9. Explain Diffusion layer model for dissolution process with labelled diagram.
10. Discuss the reasons for instability of lyophobic colloids.
11. Compare the characteristics of flocculated and deflocculated suspensions.
12. Describe 'Dye solubility' and 'Dilution test' for emulsion identification.
13. Write a short note on HLB classification.
14. Explain the working principle of 'Cup and Bob viscometer' with labelled diagram.
15. Protein binding.
16. Write two applications of complexation each in formulation and drug activity.
17. Explain the principle of monomolecular inclusion complexes and its three applications in pharmacy.
