

QP CODE: 203008

Reg. No:

**Second B. Pharm (Ayurveda) Degree Supplementary Examinations
August 2024**

Physical Pharmacy

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*

Essays:

(2x10=20)

1. Define Colloids. Explain the electric properties of Colloids
2. Define solubility. Discuss factors affecting the solubility of solids in liquids.

Answer briefly:

(10x5=50)

3. Mention the difference between flocculated and deflocculated suspension.
4. Explain the factors influencing the order of a reaction.
5. Describe the air permeability method for the determination of surface area of a Powder.
6. Define adsorption isotherm. State Freundlich adsorption equation.
7. Pharmaceutical application of polymer.
8. Describe type - I dissolution apparatus.
9. pH partition hypothesis and limitations.
10. Explain the principle and working of Ostwald viscometer.
11. What are association colloids and mention their application.
12. Accelerated stability studies.

Short notes:

(10x3=30)

13. Newtonian flow with examples.
14. Fick's first law and its applications.
15. Half-life and shelf life for a first order reaction.
16. Coacervation.
17. Spreading coefficient
18. Define emulsion. Mention two advantages of emulsions with suitable examples
19. Thixotropy.
20. Angle of repose.
21. Critical solution temperature
22. Sedimentation parameters
