

QP CODE: 203008

Reg. No:

**Second B. Pharm (Ayurveda) Degree Supplementary Examinations
August 2023**

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 Micromeritics and Explain the methods to determine the particle size.
2. What are the methods by which drugs can be degraded. How the drugs are stabilized against such degradation.

Answer briefly:

(10x5=50)

3. HLB scale.
4. Ficks law of Diffusion.
5. Define CMC and Explain the mechanism of Micelle formation.
6. Factors affecting dissolution.
7. Explain any two methods for the purification of colloids.
8. Accelerated stability studies.
9. Differentiate flocculated and Deflocculated suspension.
10. Explain the Principle and working of Cup and Bob viscometer.
11. Define specific surface area of particle and explain any one method to determine surface area.
12. Explain the importance of Stoke's law of sedimentation in suspension.

Short notes:

(10x3=30)

13. Classify surfactants based on their application.
14. Angle of Repose.
15. Henry's law.
16. Wetting agent.
17. Kinetic properties of colloids.
18. Factors affecting solubility of gases in liquids.
19. Emulsifying agent.
20. Lyophilic colloids.
21. Define Intrinsic viscosity, What are their applications.
22. Higuchi's equation and explain the terms.
