

QP CODE: 203008

Reg. No:

**Second B.Pharm (Ayurveda) Degree Supplementary Examinations
November 2021**

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. What are colloids. Classify them with examples. Explain the kinetic properties of colloids.
2. Define micromeritics. Enumerate the fundamental properties of powder. Explain the method for determination of particle volume.

Answer briefly:

(10x5=50)

3. Explain settling in suspensions.
4. What are non-Newtonian systems.
5. Define accelerated stability testing.
6. Describe the pharmaceutical application of polymers.
7. Explain Ficks' laws of diffusion.
8. Describe the effect of temperature on the rate of reaction.
9. Explain specific surface. Explain any one method for its determination.
10. Explain the electrical properties of interfaces.
11. What are the instability problems in an emulsion and explain the methods to overcome that.
12. Explain the principle and working of Ostwald viscometer.

Short notes:

(10x3=30)

13. Angle of repose.
14. Frequency distribution curves.
15. Wetting agents.
16. Gold number.
17. Plug flow.
18. Henry's law.
19. Nernst Distribution law.
20. Critical solution temperature.
21. Factors affecting dissolution.
22. Thixotropy
