

QP CODE: 203008

Reg. No:

**Second B. Pharm (Ayurveda) Degree Supplementary Examinations
September 2022**

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 dissolution. Explain the factors influencing the drug dissolution. Describe type II dissolution apparatus
2. What are colloids. Classify them with examples. Explain the kinetic properties of colloids

Answer briefly:

(10x5=50)

3. Purification of colloids.
4. Thixotropy.
5. Derive the equation for First order rate constant and half life.
6. Association colloids.
7. Explain various Non Newtonian types of flow in fluids.
8. Any two methods for the preparation of Lyophobic colloids.
9. pH partition hypothesis and limitations.
10. Pharmaceutical application of Surfactants.
11. Kinetics of drug transportation.
12. Any two methods to determine the Energy of activation

Short notes:

(10x3=30)

13. Plug flow.
14. Porosity.
15. Zero order kinetics.
16. Distribution law and its application.
17. Discuss various graph to express particle size distribution of powders.
18. Gold number.
19. Contact angle, Mention its application
20. Detergency.
21. Newtonian system.
22. Sedimentation parameters.
