QP CODE: 203008	Reg. No:
Q. 0001.	11091 1101 11111111111111111111

Second B. Pharm (Ayurveda) Degree Regular/Supplementary Examinations March 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. Explain electric properties of colloids.
- 2. Define adsorption isotherm, Explain Langmiur adsorption Isotherm in detail.

Answer briefly: (10x5=50)

- Solubilisation.
- 4. Pharmaceutical applications of Polymers.
- 5. Electric double layer.
- 6. Explain the working principle of Ostwald viscometer with diagram.
- 7. Stability problems of Emulsion.
- 8. Microencapsulation.
- 9. Any one method to determine surface tension.
- 10. Explain the influence of temperature on rate of reaction.
- 11. Frendlich adsorption isotherm.
- 12. Difference between Lyophillic and Lyophobic colloids.

Short notes: (10x3=30)

- 13. Raults law.
- 14. Spreading coefficient.
- 15. Advantages of Emulsion.
- 16. Arrhenius equation and Collision theory.
- 17. Sedimentation parameters of Suspension.
- 18. Methods to determine order of reaction.
- 19. Micellar solubilisation.
- 20. Cone and plate viscometer.
- 21. Complex reactions.
- 22. Daltons law for vapour pressure.
