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Second B.Pharm (Ayurveda) Degree Regular/Supplementary Examinations November 2019

Physical Pharmacy

Time: 3 Hours Total Marks: 100

Answer all questions.

Essays: (2x10=20)

1. Explain kinetic properties of colloids.

2. Explain physical stability of suspension

Answer briefly: (10x5=50)

- 3. Explain detergency.
- 4. Describe type I dissolution apparatus.
- 5. Define bulk density. How is it determined
- 6. Capillary rise method for surface tension.
- 7. Explain first order of reaction.
- 8. Discuss air permeability method for determination of surface area.
- 9. Give the working principle of Ostwald viscometer with a labeled diagram.
- 10. What are the causes for the instability of emulsions
- 11. Explain term colloids. Classify the colloids.
- 12. Explain steady state of diffusion

Short notes: (10x3=30)

- 13. How do you select a viscometer to study the rheology of fluids
- 14. Microencapsulation
- 15. Gel
- 16. Plastic flow of fluids.
- 17.HLB Scale
- 18. Yield value and Bingham bodies.
- 19. Define: viscosity, angle of repose, surface tension.
- 20. Henrys' law
- 21. Define emulsion. Mention two advantages of emulsions with suitable examples
- 22. Mention the Hixson-Crowell cube root law and explain its importance in pharmacy
