

Second B.Pharm (Ayurveda) Degree Examinations, October 2014**Physical Pharmacy****Time: 3 Hours****Total Marks: 100**

- Answer all questions.

Essays:**(2x10=20)**

1. Define dissolution with a neat diagram explain dissolution apparatus
2. Explain the methods ascertain order of a reaction

Answer briefly:**(10x5=50)**

3. Mention the difference between flocculated and deflocculated suspension
4. Purification of colloids
5. What is microencapsulation. What are the pharmaceutical applications of microencapsulation
6. Define rheology and mention the characteristics of non-Newtonian fluids
7. How will you find out the mean diameter of powder by Andresen apparatus
8. Theories of emulsion
9. Wetting agents
10. Various steps involved in the prediction of shelf-life
11. Derive the equation for the determination of surface tension by capillary rise method
12. Henry's law of solubility of gas in liquids. Mention its application

Short notes:**(10x3=30)**

13. Distinguish between elastic deformation and plastic deformation
14. What are the significance of Zeta potential in pharmacy
15. Stability of suspensions
16. Name the factors influencing adsorption of solids in solution
17. HLB scale
18. Terms in Stoke's law
19. Define Micromeritics mention its application in pharmacy
20. Define colloids. Classify them with example
21. Types of rheological systems
22. Ternary system.
