QP CODE:203006 (OLD SCHEME) Reg.No:

Second Year B.Pharm Degree Supplementary Examinations - August 2014

PHARMACEUTICS – II (2010 SCHEME) (Physical Pharmacy)

Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

Essay

- 1. What is surface tension. Describe a suitable method to determine surface tension
- 2. What is micromeritics. Classify various methods of particle size determination and explain any one method in detail
- 3. What are surfactants. Explain the HLB classification system and its application in pharmacy

Short notes

- 4. Explain the term interfacial tension and mention its importance in pharmacy
- 5. Briefly explain the theory of dissolution
- 6. Describe the principle of controlled flocculation in formulation of suspension
- 7. Explain the kinetic properties of colloids
- 8. What is solubilisation and explain it with an example
- 9. What is thixotropy and mention its importance
- 10. Describe the falling sphere viscometer for determination of viscosity
- 11. Explain the method determination of half life
- 12. What is complexation and mention its application in pharmacy
- 13. Derive an expression to determine the rate constant of first order of reaction
- 14. Explain in detail the spreading coefficient
- 15. Describe the law which governs the flow of liquids with an equation
- 16. Briefly explain the physical stability and preservation of emulsion
- 17. What is angle of repose and mention its applications

Total Marks: 100

(14x5=70)

(3x10=30)