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

Second Year B.Pharm Degree Supplementary Examinations - January 2016

PHARMACEUTICS – II (Physical Pharmacy) (2010 SCHEME)

Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

Essav

- 1. Enumerate the methods of complexation for enhancement of solubility.
- 2. What do you mean by accelerated stability studies. Narrate the construction of Arrhenius plot.
- 3. Deduce Newton's equation for flow. Draw the rheograms for Newtonian and non Newtonian materials with examples for each type.

Short notes

- 4. Electrical properties of interface.
- 5. Explain theory of sedimentation in suspension.
- 6. Narrate the construction and working of coulter-counter.
- 7. Discuss on Noyes-Whitney's equation for dissolution of drug particle.
- 8. How do you carry out dissolution studies.
- 9. Explain phase volume ratio.
- 10. Differentiate between flocculation, de-flocculation and controlled flocculation.
- 11. Define half life and how do you determine the same.
- 12. Explain the importance of Arrhenius equation in drug stability testing.
- 13. Explain different methods of preparation of emulsion.
- 14. Narrate the construction and working of falling sphere viscometer.
- 15. Define and explain Carr's index and Hausner ratio.
- 16. Explain dosage form design.
- 17. Mention the effect of temperature, light and solvent on reaction kinetics.

Total Marks: 100

(14x5=70)

(3x10=30)