QP CODE:203006 (OLD SCHEME)	Reg.No:
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Second Year B.Pharm Degree Supplementary Examinations - July 2015

PHARMACEUTICS – II (2010 SCHEME) (Physical Pharmacy)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Define rheology. Explain Non-Newtonian system of flow
- 2. What is dissolution. Explain Noyes Whitney equation and apparatus used for dissolution study.
- 3. Define colloids and explain the properties of colloids

Short notes (14x5=70)

- 4. Explain the electrical properties of liquid interface
- 5. Describe the theory of sedimentation
- 6. Describe the sedimentation parameters and classify the suspending agents
- 7. Explain the properties of Newtonian system of flow
- 8. Define shelf life and explain how accelerated stability studies are carried out
- 9. Explain the method for the determination of viscosity using cup and bob viscometer
- 10. Describe the effect of various factors on reaction kinetics
- 11. Describe the coulter counter method for the determination of particle size
- 12. Explain in brief the formulation of suspension
- 13. What is complexation and explain its significance with an example
- 14. What is HLB. Classify HLB and how it is calculated
- 15. Explain the different methods of preparation of emulsion
- 16. Explain the importance of phase volume ratio in the formulation of emulsion
- 17. Explain the process adsorption at liquid and solid interface.
