

Second Year B.Pharm Degree Examinations - July 2015

## **(2012 Scheme)**

### **PHARMACEUTICS II**

**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay****(3x10=30)**

1. Define suspensions. Explain the rheological properties and applications of suspensions.
2. Detail the factors influencing reaction rates.
3. Determination of average particle size and particle size distribution.

**Short notes****(14x5=70)**

4. Compare diffusion Vs dissolution.
5. Surface Tension
6. Importance of zeta potential.
7. Kinetic properties of colloids.
8. Sedimentation volume and degree of sedimentation of suspensions.
9. Applications of emulsions.
10. Emulsifying agents.
11. Cup and bob viscometer.
12. Half life.
13. Accelerated stability testing – limitations.
14. HLB value
15. Methods to improve flow properties of powder.
16. Classification of complexes.
17. Micro emulsions.

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