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

Second Year B.Pharm Degree Supplementary Examinations - March 2015

# PHARMACEUTICS – II (2010 SCHEME) (Physical Pharmacy)

## Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

### Essay

- 1. Define Newtonian and non-Newtonian liquids. Explain the thixotropic properties of non-Newtonian liquids.
- 2. Explain the various derived properties of powder.
- 3. Define colloids. Explain the kinetic, optical and electric properties of colloids.

### Short notes

- 4. Mention the importance of dissolution and diffusion on absorption.
- 5. Derive an equation for the determination of surface tension of a liquid by capillary rise method.
- 6. Define shelf life and how do you determine it. Mention its significance.
- 7. What is plug flow and how do you overcome it.
- 8. Define angle of repose and mention its significance.
- 9. How do you determine order of a reaction.
- 10. Define specific surface area of a powder. How it can be determined.
- 11. Mention the principle and working of Ostwald's (capillary) viscometer.
- 12. What is wetting. Explain its significance in suspensions.
- 13. Differentiate between creaming and cracking in emulsion.
- 14.Describe Andreasen pipette method of analyzing the particle size.
- 15. Classify colloids with examples.
- 16. Explain various theories of emulsification.
- 17.Explain the Fick's laws of diffusion .

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# Total Marks: 100

(3x10=30)

## (14x5=70)