QP CODE:213006 (NEW SCHEME) **Reg.No: ……..**

Second Year B.Pharm Degree Supplementary Examinations February 2017

PHARMACEUTICS II

(2012 Scheme)

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

- Answer all Questions.
- Write equations wherever necessary.

Essay **(3x10=30)**

1. Define Newtonian and non-Newtonian liquids. Explain the thixotropic properties of non-Newtonian liquids.
2. Explain the various derived properties of powder.
3. Enumerate the methods of complexation for enhancement of solubility.

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

4. Importance of dissolution and diffusion on absorption.
5. What is protein binding and explain the kinetics of protein binding.
6. Define shelf life and how do you determine it. Mention its significance.
7. Differentiate between lyophilic, lyophobic and association colloids.
8. Define bulkiness and mention its significance.
9. How do you determine order of a reaction.
10. Define specific surface area of a powder and how it can be determined.
11. How do you carry out diffusion studies.
12. What is wetting and explain its significance in suspensions.
13. Differentiate between creaming and cracking in emulsion.
14. Describe Andresen pipette method of analyzing the particle size.
15. Define HLB value and mention the methods for its estimation.
16. Explain various theories of emulsification.
17. Explain Fick's law of diffusion with appropriate equation

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