

**QP CODE:213006 (NEW SCHEME)**

**Reg. No: .....**

**Second Year B.Pharm Degree Examinations July 2018**

**Pharmaceutics II**

**(2012 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essays**

**(3x10=30)**

1. Give a detailed account of derived properties of powders.
2. • Explain the effect of temperature and light on the rate of a reaction.  
• Kinetics of protein binding.
3. Explain in detail about the non-Newtonian system.

**Short notes**

**(14x5=70)**

4. Give a brief account of order of a reaction.
5. Fick's laws of diffusion
6. Physical stability of suspension.
7. Explain rate constant and half-life of first order reaction.
8. Stabilization technique in pharmaceutical dosage forms.
9. Explain the working of cup and bob viscometer.
10. Spreading coefficient.
11. Evaluation of emulsions
12. Application of diffusion and dissolution in pharmacy.
13. HLB scale
14. Critical micellar concentration (CMC).
15. Adsorption method in determining surface area of powder.
16. Optical microscopy.
17. Application of complexation in pharmacy

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