

# **2012 Scheme**

**QP CODE:213006**

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

## **Second Year B.Pharm Degree Supplementary Examinations January 2025**

### **Pharmaceutics II**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Write equations wherever necessary.*

**Essays**

**(3x10=30)**

1. Define drug stability. Describe the stabilization techniques of any two pharmaceutical dosage forms.
2. Define thixotropy. Draw different types of thixotropic curves and explain the mechanisms for their behavior with suitable examples.
3. Explain the factors influencing dissolution of drug.

**Short notes**

**(14x5=70)**

4. Explain the surface free energy and spreading coefficient of liquid.
5. How to make controlled flocculation.
6. Explain the methods to determine particle size.
7. Importance of HLB scale.
8. Adsorption at liquid surface.
9. Define emulsion and explain emulsifying agent.
10. Sedimentation parameter.
11. Differentiate the zero and first order reaction with examples.
12. Theories of emulsification.
13. Stabilization against oxidative decomposition.
14. Construction and working of capillary viscometer.
15. Porosity and packing arrangement of powders.
16. Determination of surface tension using stalagmometer.
17. Define Rheology and write a note on Newtonian system.

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