

# **2012 Scheme**

**QP CODE: 213006**

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

## **Second Year B.Pharm Degree Supplementary Examinations September 2021**

### **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 suspension. Explain in detail about the theories of sedimentation.
2. Explain any one method for determination of each of the following.
  - Particle size
  - Particle volume
3. Accelerated stability studies.

#### **Short notes**

**(14x5=70)**

4. Dissolution apparatus.
5. Any one method for determination of surface tension
6. Kinetics of protein binding
7. Electrical properties of interface.
8. Explain the working of falling sphere viscometer.
9. Discuss the purification of colloids.
10. Surface active agents.
11. Evaluation of emulsions.
12. Flow properties of powder and Carr's index
13. Newtonian system
14. Explain thixotropy
15. Flocculation and deflocculation.
16. Half-life determination in first order reaction
17. Effect of solvent on reaction kinetics

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