

# **2010 Scheme**

**QP CODE: 203006**

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

## **Second Year B.Pharm Degree Supplementary Examinations February 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. Explain in detail about different non – Newtonian systems.
2. Explain different theories of emulsification.
3. Discuss in short about various stability problems in pharmaceutical dosage forms and methods to overcome the same.

#### **Short notes**

**(14x5=70)**

4. Explain sink condition and explain the same.
5. Give a detailed methodology for the determination of dissolution rate of a solid dosage form in dissolution apparatus II as per Indian Pharmacopoeia.
6. Classify surfactants based on HLB value.
7. Construct an equation for the determination of spreading coefficient based on the work of adhesion and work of cohesion.
8. Discuss the optical properties of Colloids
9. Distinguish flocculated and deflocculated system.
10. Describe the term thixotropy based on the rheological property.
11. Provide a detailed process for the determination of viscosity by falling sphere viscometer.
12. Zero order reactions.
13. Explain various evaluation tests for stability of an emulsion.
14. How you determine the particle size of the powders by sedimentation technique.
15. Discuss on different metal ion co-ordination complexes.
16. Explain the porosity of powders
17. Explain the kinetics of protein – drug binding.

\*\*\*\*\*