

# **2010 Scheme**

**QP CODE: 203006**

**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. Deduce the equation for Langmuir adsorption isotherm. Explain graphical representation of various isotherms with examples.
2. Define emulsions. What are the various stability problems of emulsions. How do you overcome them.
3. Derived properties of powders.

#### **Short notes**

**(14x5=70)**

4. How do you carry out diffusion study. Explain.
5. Briefly explain applications of drug complexation.
6. Explain electric properties of interface.
7. Explain contact angle. Explain.
8. Differentiate between flocculated and deflocculated suspension.
9. What is plug flow. How do you overcome it.
10. Define zero order and first order reaction. Differentiate them with suitable examples.
11. Explain spreading co-efficient. Explain.
12. Briefly explain various theories of emulsification
13. Explain any one single point viscometer with a neat labelled diagram.
14. Enumerate the methods of particle size determination. Explain any one method in detail
15. Give the various methods for determination of order of reaction.
16. Define protein drug binding. Give its significance.
17. Explain sedimentation parameters.

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