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Roll No .....

PY-202 (GS)

B.Pharmacy II Semester Examination, June 2020

Grading System (GS)

Pharmaceutics - II

(Physical Pharmacy)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. Discuss electric properties of interfaces and applications of surfactants in surface and interfacial phenomenon.

2. a) What is buffer capacity?
   b) Define HLB.

3. What is Rheology? Discuss its pharmaceutical applications.

4. Show how would you calculate the solubility of polar and Non polar solutes with the help of extended Hildebrand Solubility approach. What are the effect of solvation and Association in the Pharmaceutical systems. Give examples.

5. Describe Du Nouy Ring method for the determination of interfacial/surface tension.

6. Classify various complexes and explain in details various inclusion complexes with examples.

   OR

   Discuss factors affecting complexation and protein binding.

7. Define interfacial tension. How is it related to surface free energy? Describe methods of its measurement.

   OR

   Discuss methods to measure thixotropy, Bulges and spurs.

8. Write short notes on any two:
   a) Optical properties of Colloids
   b) Controlled flocculation
   c) Theories of emulsification
   d) Caking of suspension

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