

AV – 2295

Second Year B. Pharm. (Annual Pattern) Examination

PHYSICAL PHARMACY

Paper – II. T. 1

(USC – 35008)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All question carry equal marks.
(2) Answer any **Eight** questions.
(3) Illustrate your answer wherever necessary with the help of neat sketches.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Classify complexes and describe Metal Complexes in detail. 10
2. Discuss the pharmaceutical applications of Rheology and add a note on types of flow of liquid. 10
3. Enlist and explain the derived properties of powders in detail. 10
4. (a) Write about interfacial properties of suspended particles. 5
(b) Discuss electrical properties of colloids in detail. 5
5. (a) What is critical micelle concentration ? How do you determine it by surface tension measurement ? 5
(b) Describe “Zero order reaction” in detail. 5
6. State Fick’s First Law of diffusion and describe diffusion and drug release. 10

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7. Enlist the factors affecting solubility of weak electrolytes and describe them. 10
8. State first law of thermodynamics and describe the work of expansion at constant pressure. 10
9. Discuss attractive forces between molecules and add a note on liquefaction of gases. 10
10. Write notes on (Any Two) :—
- (a) Thixotrophy.
 - (b) Micellar Solubilization.
 - (c) Solute – solvent – interaction. 10

