Code No: B2103 **R10** **SET-1**

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2017
PHYSICAL PHARMACEUTICS

Time: 3 hours Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks
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1. a) Explain solute solvent interactions. (8M)
   b) Discuss factors effecting solubility of drugs. (7M)

2. a) Define and classify complexes. Discuss any one class of complexes. (8M)
   b) Write about protein binding and its influence on drug action. (7M)

3. a) Write a note on accelerated stability analysis for prediction of shelf-life of a drug. (8M)
   b) Explain the influence of temperature on rate of degradation of a product with suitable equations. (7M)

4. a) Define and derive an equation for surface tension and surface free energy. (8M)
   b) Discuss electric double layer at interface of Liquid system. (7M)

5. a) List various methods for determining surface area and explain any two. (8M)
   b) What are derived properties of powders? Write about any two. (7M)

6. a) Describe the measurement of viscosity by capillary viscometer. (8M)
   b) Define thixotropy and explain measurement of thixotropy. (7M)

7. a) Explain the Optical and kinetic properties of colloids. (10M)
   b) What is Donnan Membran equilibraium? (5M)

8. a) Discuss DLVO theory and interfacial theory of emulsification. (8M)
   b) Write about instability problems of emulsions. (7M)

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