

B.Pharm. Third semester (Concourse) www.FirstRanker.com

35149: Physical Pharmaceutics - I: T-3.1

P. Pages: 1 Time: Three Hours AW - 2295

Max. Marks: 60 Notes: 1. All question carry equal marks. Answer any five questions. 2. 3. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing the answer book. 4. 1. Write in brief on applications of thermodynamics in pharmacy. a) 6 b) Write the differences between amorphous and crystalline solids. 6 2. State Nernst distribution law? Give it's limitations. How ionic dissociation and molecular 12 association affect on partition of solute between immiscible liquid system. 3. Write about the solubility of weak electrolytes. Add note on foreign substance influence in 12 mutual solubility of liquids. What is interfacial properties of suspended particles? Explain the different sedimentation 4. 12 parameters. 5. a) What are colloids? Classify different colloids with examples. 6 b) Discuss electrical properties of colloids. 6 6. Discuss theories of emulsification in details. 12 7. Write a note on any two. 12 a) Factors affecting on reaction rate. b) Polymorphism. Preservation of emulsion. c) Wetting of particles. d)



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