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B. Pharm. Third Semester 35149: Physical Pharmaceutics - 1: T-3.1

P. Pages: 1 AU - 0664 Time: Three Hours Max. Marks: 60 1. All question carry equal marks. 2. Answer any five questions. 1. State second law of thermodynamics with its equation. a) 6 bì Define any three. К Isothermal process. 2) Efficiency of Engine. 3) Open system. 4) Reversible process. 5) Closed system. 2. Explain theory of sedimentation. Which are the different sedimentation parameters? Add a 12 note on wetting of particles. Discuss Accelerated stability analysis with equations. Add a note on Rate and order of 3. 12 reactions. Classify different colloidal systems with examples. 4. a) 6 b) Discuss optical properties of colloids. 6 Define solubility. Give classification of solvents with suitable example. 5. a) b) Describe various factors affecting solubility of drug in solvent. Write the difference between amorphous and crystalline solids. Add a note on X-Ray 12 6. Crystallography. 12 7. Write a note on any two. a) Phase equilibria and phase rule. Solubility of gases in liquids. b) Controlled flocculation. c) Stability of emulsion. d)

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