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B. Pharm. - II Second Year (Annual Pattern) (New Course)

35008: Physical Pharmacy: II.T.I

P. Pages: 1

Time: Three Hours

AW - 2263

Max. Marks: 80

Notes: 1. All question carry equal marks. 2. Answer any eight questions. 3. Illustrate your answer necessary with the help of neat sketches. 4. Use of pen Blue/Black ink/refill only for writing the answer book. 1. 10 Describe various binding forces between molecules. Add a note on polymorphism. 2. State & explain first law of thermodynamics & add a note on work of expansion at 10 constant pressure. 3. What do you mean by complete & partial miscibility? What are the factors affecting 10 mutual solubility of partially miscible liquids in details. 4. a) Discuss steady state of diffusion. 5 b) Define rate, order & molecularity of reaction & describe first order reaction in details. 5 Discuss HLB classification of surfactants. 5. 5 a) 5 b) Write in details about wetting and detergency. 10 Describe Kinetic properties of colloids in details. 6. 7. 10 Define emulsions, describe their types & write the theories of emulsification. 8. What do you mean by micromeritics? Write about the methods of determination of 10 particle size. 10 9. Describe the different types of viscometers in details. 10 10. Write notes on any two. Emulsion. a) b) Cyclodextrin complexes.

c)

Plasma protein binding.



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