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Total No. of Questions: 13

B.Pharma (2017 Batch) (Sem.-3) PHYSICAL PHARMACEUTICS-I

> Subject Code: BP-302T M.Code: 75106

Time: 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- 3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Define briefly:

- a) Binary Solutions
- b) Eutectic mixture
- NW.FirstRanker.com c) Critical solution temperature
- d) Refractive index
- e) HLB scale
- f) Interfacial tension
- g) Buffer capacity
- h) Complexation
- Protein binding
- j) Aerosol

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SECTION-B

- 2. Discuss various factors influencing solubility
- Enumerate and discuss physicochemical properties of drug molecule.
- Define Surface tension. Enumerate different techniques that can be used to measure it. Explain any one.

SECTION-C

- 5. Briefly discuss diffusion in biological system.
- 6. What is the significance of critical solution temperature?
- Discuss the adsorption at solid interface with example.
- 8. How complexation affects the action of a drug?
- 9. Discuss the thermodynamics of stability constant.
- 10. Discuss Raoults Law.
- 11. How dipole moment is determined?
- Discuss the significance of polymorphism.
- 13. How pH is determined, discuss?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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