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Paper Id: 150302

Roll No: Sub Code:BP302T

B. PHARM (SEM-III) THEORY EXAMINATION 2019-20 PHYSICAL PHARMACEUTICS-I

Time: 3 Hours Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

 $10 \times 2 = 20$

- a. Enlist limitations of distribution law.
- b. Define salvation and association.
- c. Define real solution.
- d. Define diffusion.
- e. What are chelate compounds?
- f. State Raoult's Law.
- g. What is vapor pressure?
- h. Define HLB scale.
- i. What are surface and interfacial tensions?
- j. Define Sorensen's pH scale.

SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- a. Describe solubility of liquid in liquids.
- b. Describe determination and applications of dipole moment and dissociation constant.
- c. Describe classification of complexation.

SECTION C

3. Attempt any *five* parts of the following:

 $5 \times 7 = 35$

- a. Describe pharmaceutical and biological buffers.
- b. Define buffered isotonic solution. Describe methods of adjustment tonicity.
- c. Discuss protein binding.
- d. Explain solubilization and detergency.
- e. Describe sublimation critical point and eutectic mixtures.
- f. Discuss critical solution temperature and applications.
- g. Write short notes on liquid crystals and glassy states.