

Paper Id:

150302

Roll No:

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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 x 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 x 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 x 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.