Sub Code:BP302T

Paper Id: 150302 Roll No: | | | | | | | | | | | | | |

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.

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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.