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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (Sem.–3) PHYSICAL PHARMACEUTICS-I Subject Code : BP-302T M.Code : 75106 Date of Examination : 14-12-22

Time: 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

- 1. 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. Answer briefly :
 - a. Solutions
 - b. Raoult's Law
 - c. Amorphrous
 - d. Dipole moment
 - e. HLB
 - f. Surface tension
 - g. Buffers
 - h. Drug
 - i. Isotonic solutions
 - j. Complexation.

SECTION-B

- 2. a. Give methods for the determination of surface and interfacial tension.
 - b. Explain methods for the determination of CMC.
- 3. Classify complexation. Highlight methods of its analysis.
- 4. What are the ideal solubility parameters? Explain mechanism of solute-solvent interaction.

SECTION-C

- 5. Explain the quantitative approach to the factors influencing solubility of drugs.
- 6. Write short note on eutectic mixture and sublimation.
- 7. How refractive index and optical rotation determined.
- 8. Explain adsorption at solid interface.
- 9. How pH determined? Give its significance.
- 10. What is Buffer Capacity? Explain with example.
- 11. Explain the crystalline structure of complexes.
- 12. Explain surface active agents with examples.
- 13. Write short note on :
 - a) Inhalers
 - b) Critical solution temperature.

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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