Roll No.

Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (Sem.–3) PHYSICAL PHARMACEUTICS-I Subject Code : BP-302T M.Code : 93324 Date of Examination : 14-01-23

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. Define briefly :

- a) What do you mean by physical pharmaceutics?
- b) How chemical kinetics helps in stability?
- c) What do you know about raoult law?
- d) What is the relative humidity?
- e) Define glassy state.
- f) What is the refractive index.
- g) Discuss the detergency.
- h) Define buffer.
- i) What is complexation?
- j) Describe protein binding.

1 M-93324

SECTION-B

- 2. Give a note on solubility expression.
- 3. Discuss the complete note on the physiochemical properties of the drug entity.
- 4. Write a comment on the measurement of surface and interfacial tensions.

SECTION-C

- 5. Give a detailed note on the detergency with an example.
- 6. Discuss in detail aerosols.
- 7. What is the various role of buffers in the pharma sector?
- 8. Elaborate on the scale of HLB.
- 9. Discuss the various necessary aspects for stability.
- 10. Comment on partially miscible liquids.
- 11. Justify the solubility of a gas in the liquid.
- 12. What are optical rotations?
- 13. Mention for absorption at the solid interface.

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.