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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma. (Sem.-7) NOVEL DRUG DELIVERY SYSTEM-THEORY Subject Code : BP-704T M.Code : 78390 Date of Examination : 19-12-2022

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. Write briefly :
 - a) Polymers
 - b) Bio-adhesive system
 - c) Permeation
 - d) Ion exchange
 - e) GRDDS
 - f) Diffusion
 - g) Dissolution
 - h) Bio-adhesive
 - i) Ocular route
 - j) Noisome

SECTION-B

- 2. Classify Polymers with properties of each. Highlight the benefit of polymers in the formulation of controlled release drug delivery system.
- 3. a) Enumerate formulation approaches of microencapsulation.
 - b) Explain the principle of muco-adhesion.
- 4. Write short note on :
 - a) Ocular drug delivery system
 - b) Monoclonal antibodies

SECTION-C

- 5. Explain physicochemical and biological properties of drugs relevant to controlled delivery system.
- 6. Explain different methods for the preparation of TDDS.
- 7. What is the mechanism behind permeation enhancers?
- 8. Explain the pharmaceutical application of Gastroretentive drug delivery system.
- 9. Give advantages and disadvantages of:
 - a) Microspheres
 - b) Nasal spray
- 10. What are the approaches for the preparation and evaluation of nanoparticles.
- 11. Give pharmaceutical application of: a) IUDs b) Nanoparticles
- 12. Explain the formulation aspect of: a) Inhalers b) osmotic pumps.
- 13. Write short note on: a) Factors affecting permeation b) Transmucosal permeability

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.