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Total No. of Pages: 02

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**M.Pharmacy (Pharmaceutics) (Sem. – 2)**  
**MOLECULAR PHARMACEUTICS(NANO TECH & TARGETED DDS)**

Subject Code: MPH-201T

M Code: 74961

Date of Examination: 12-12-2022

Time: 3 Hrs.

Max. Marks: 75

**INSTRUCTIONS TO CANDIDATES:**

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. Define and explain nucleic acid based therapeutic delivery system
  - a) Potential targeted diseases for gene therapy (8)
  - b) Bio-distribution and Pharmacokinetics (7)
2. Describe intra nasal drug delivery systems types and preparations. (15)
3. Discuss preparation and application of following: (4,4,4,3)
  - a) Niosomes
  - b) Monoclonal antibodies
  - c) Aquasomes
  - d) Phytosomes
4. a) Define different types, preparation and evaluation of Microspheres. (8)  
b) Discuss about Aerosols, Propellants and various types of containers. (7)
5. Write a note on:
  - a) Brain specific delivery (8)
  - b) Nanoparticles (7)
6. Write a note on therapeutic antisense molecules and aptamers drugs of future. (15)

**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.**

