

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

**M.Pharmacy (Pharmaceutics) (Sem.-2)**  
**MOLECULAR PHARMACEUTICS**  
**(NANO TECH AND TARGETED DDS)**

Subject Code : MPH-201

M.Code : 74961

Date of Examination : 04-07-22

Time : 3 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of SIX questions.
  2. Each question carry FIFTEEN marks.
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1. a) Discuss the properties of a good polymer conjugate.  
b) Discuss the different strategies for enhanced CNS drug delivery.
  2. a) What are the obstacles in gene delivery?  
b) Differentiate between dual targeting and combination targeting.
  3. a) Explain the mechanism of liposome formation.  
b) Explain rigidization of fluid phase vesicles with cholesterol.
  4. a) Discuss the physicochemical aspects of non-ionic surfactant vesicles.  
b) Explain reverse phase evaporation.
  5. a) Discuss components of an aerosols.  
b) Explain any one method of production of aerosols.
  6. a) How characterization of nanoparticles can be carried out?  
b) Discuss the different polymers used for gene delivery.

**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.**