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Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmaceutics) (2017 Batch) (Sem.-2)

**MOLECULAR PHARMACEUTICS
(NANO TECH AND TARGETED DDS)**

Subject Code : MPH-201

M.Code : 74961

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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

1. a. Explain the biological process involved in drug targeting to tumor tissues. 7.5
b. Explain the rationale behind the Brain specific delivery. 7.5
2. Explain the preparation and evaluation of nano particles. What is the role of delivering drugs for tumor targeting? 15
3. Give preparation and evaluation of :
 - a. Niosomes 7.5
 - b. Aquasomes 7.5
4. Enumerate the preparation and evaluation of Pulmonary delivery system
5. Write short note on :
 - a. *In vivo* gene therapy 5
 - b. Biodistribution and pharmacokinetics 5
 - c. Cancer and gene therapy 5
6. Enumerate the methods to prepare and evaluate liposomes. Explain its benefit in delivering drugs. 15

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.