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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.

- Q1. (a) What are Aptamers? Give their applications. 3
(b) What is EPR? 3
(c) Enumerate six diseases treated by gene therapy. 3
(d) Explain methods used for filling of aerosols. 3
(e) Define Aquasomes. 3
- Q2. (a) Discuss various viral carrier systems used in gene delivery. 10
(b) Define somatic gene therapy. Discuss different types of somatic gene therapy. 5
- Q3. (a) Discuss methods facilitating nasal absorption. 7
(b) Explain quality control tests of aerosol formulations. 8
- Q4. (a) Discuss various polymers used in the preparation of nanoparticles. 10
(b) Discuss the sterility aspects of liposomes. 5
- Q5. (a) Explain the importance of cellular and lymphatic uptake in targeted drug delivery systems. 10
(b) Discuss the factors affecting drug transport across blood brain barrier. 5
- Q6. (a) What are microspheres? Explain in detail methods of preparation and applications in drug delivery systems. 10
(b) Discuss various components and their role in formation of niosomes. 5

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.

