

# Question Paper

Exam Date & Time: 03-May-2018 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES  
END SEMESTER THEORY EXAMINATIONS- MAY 2018  
PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICS)

DATE: 03/05/2018

TIME: 2:00 PM - 5:00 PM

**Molecular Pharmaceutics Nano Tech and Targeted DDS [PCE-MPH201T]**

Marks: 50

Duration: 180 mins.

**a**

**Answer all the questions.**

**Answer the following (5 marks x 8 = 40 marks)**

- 1) What are different methods of preparation of Nanoparticles? Explain any TWO methods of preparation of Nanoparticles. (5)
- 2) Add an account on evaluation tests for microspheres (5)
- 3) Define Resealed erythrocytes. Explain any TWO methods of preparation of Resealed erythrocytes. (5)
- 4) What are different types of pulmonary drug delivery systems? Explain any TWO systems in detail. (5)
- 5) Write about biological processes and events involved in drug targeting (5)
- 6) What are the advantages of gene therapy? Discuss the approaches for gene therapy (5)
- 7) Discuss about the various transport routes across the blood brain barrier (5)
- 8) Briefly discuss the preparation methods of Nanocrystals (5)

**b**

**Answer all the questions.**

**Answer the following with specific answers (2 marks x 5 = 10 marks)**

- 9) What are the advantages of phytosomes? (2)

A)

- B) What are advanced propellants? What is the reason behind the use of such propellants (2)
- C) Enlist different evaluation tests for intranasal drug delivery systems. (2)
- D) Define and classify Liposomes. (2)
- E) Write any FOUR applications of Monoclonal antibodies (2)

-----End-----