Question Paper

Exam Date & Time: 11-May-2023 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Molecular Pharmaceutics (Nano Tech and Targeted DDS) [PCE-MPH201T -S2]

Marks: 75 Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x = 50 marks)

1)	Describe gene delivery systems used in gene therapy.	(10)
2)	What is bioinformatics? Describe its applications.	(10)
3)	Explain the methods of preparation of resealed erythrocytes	(10)
4)	Discuss the various approaches for brain targeting	(10)
5)	Discuss the factors affecting nasal absorption. Briefly explain evaluation of intra-nasal drug delivery systems	(10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x = 25 marks)

6)	What are dendrimers? Give their methods of preparation.	(5)
7)	What are the safety issues with nanopharmaceuticals?	(5)
8)	Explain any TWO approaches for colon targeting	(5)
9)	What are monoclonal antibodies? Explain their preparation techniques	(5)
10)	Write a note on dry powder inhalers	(5)

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