

Question Paper

Exam Date & Time: 13-May-2024 (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 -S1]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Enlist various biological processes and events that govern drug targeting. Explain in detail any two biological processes. (10)
- 2) Explain in detail about Gene Expression System. (10)
- 3) Elaborate various components of Aerosol System. (10)
- 4) Write about the various types of monoclonal antibodies. Discuss any TWO applications of Monoclonal antibodies (5+5). (10)
- 5) Discuss different methods of evaluation of Liposomes (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Discuss various transport routes to cross Blood Brain Barrier. (5)
- 7) Explain various factors affecting Nasal Absorption. (5)
- 8) Discuss the preparation of Resealed Erythrocytes and list TWO applications. (5)
- 9) Explain the methods of preparation of dendrimers. (5)
- 10) Write a short note on Tissue Engineering. (5)

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