

Exam Date & Time: 13-Jul-2022 (10:00 AM - 01:00 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) What are polymeric nanoparticles? Describe the methods of their preparation. (10)
- 2) Describe the ethical and regulatory issues of nanopharmaceuticals (10)
- 3) Explain strategies for tumor targeting (10)
- 4) What factors influence nasal absorption? Explain the barriers for nasal absorption and strategies to improve the same. (10)
- 5) What are monoclonal antibodies? Explain their preparation techniques (10)

SECTION - B

Answer all the questions.

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

- 6) Describe bioinformatics databases. (5)
- 7) Write a note on resealed erythrocytes. (5)
- 8) What are nanocrystals? Describe their advantages and disadvantages. (5)
- 9) What are the advantages and disadvantages of dry powder inhalers? (5)
- 10) Explain the principle of any TWO approaches for colon targeted drug delivery (5)

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