

Exam Date & Time: 16-Dec-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Novel Drug Delivery Systems [PCE-MIP103T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Write the detailed classification of controlled drug delivery systems. Explain the effect of solution solubility and polymer diffusivity on a controlled drug delivery system. (10)
- 2) Write the applications and various approaches in GRDDS. (10)
- 3) Explain any two instruments used for permeation studies of transdermal drug delivery systems with diagrams. (10)
- 4) Describe in detail the steps involved in rDNA technology and write its application. (10)
- 5) Define the pulsatile drug delivery system and explain in detail the mechanism of the reservoir system with an erodible coating. (10)

SECTION - B

Answer all the questions.

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

- 6) Enlist various physicochemical properties of polymers and explain any three. (5)
- 7) Write the significance of nanoscale materials in cosmeceuticals with suitable examples. (5)
- 8) Explain the causes of protein destabilization. (5)
- 9) Define microemulsion and explain the evaluation tests for microemulsion. (5)
- 10) What kinds of disease treatment can utilize personalized medicine? Explain with two examples. (5)

-----End-----

