

Exam Date & Time: 09-Mar-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Drug Delivery Systems [PCE-MPH102T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Describe the mechanisms of CR/SR dosage forms (10)
- 2) Discuss the various types of osmotically activated drug delivery systems (10)
- 3) Explain the various approaches to modulate GI transit time. (10)
- 4) Discuss the various approaches for the formulation of injectable parenteral controlled drug delivery formulations. (10)
- 5) Discuss the formulation approaches for the nasal and transdermal delivery of proteins and peptides (10)

SECTION - B

Answer all the questions.

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

- 6) Classify various types of smart polymers with examples (5)
- 7) Write a note on the categories of patients for personalized medicines. (5)
- 8) (5)

What are the considerations in the development of mucoadhesive drug delivery systems for the vagina?
Discuss the types of vaginal drug delivery systems.

9) What are the different types of Ocular inserts? Add a note on any ONE type of Ocular insert. (5)

10) Write about the evaluation of transdermal drug delivery systems (5)

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