

Regular

Exam Date & Time: 27-Mar-2021 (01:30 PM - 04:30 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) Discuss the physicochemical and biological approaches for SR/CR formulations (10)
- 2) Discuss the various types of osmotically activated drug delivery systems (10)
- 3) Discuss the theories of mucoadhesion. Write about the evaluation tests for mucoadhesive drug delivery systems (10)
- 4) Classify and explain the working of various IUDs (10)
- 5) What are the advantages of mucosal and transdermal delivery of vaccines? Discuss the various transdermal vaccine delivery systems (10)

SECTION - B

Answer all the questions.

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

- 6) What are different Feedback regulated drug delivery systems? Explain any TWO systems in brief. (5)
- 7) Explain the term personalized medicine and write on the categories of patients for personalized medicines (5)
- 8) Enlist different types of gastro-retentive drug delivery systems. Explain Effervescence based gastro-retentive systems. (5)
- 9) What are different types of Ocular inserts? Add a note on any ONE type of Ocular insert. (5)
- 10) Mention various types of Transdermal drug delivery systems and explain any ONE type in detail. (5)

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