

Question Paper

Exam Date & Time: 17-Jul-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

Pharmaceutical Formulations [PCE 3.6T-S3]

Marks: 70

Duration: 180 mins.

Section A

Answer all the questions.

Long Answer Questions (3 x 10 marks = 30 marks)

- 1) Define tablets. Mention different methods used for the preparation of tablets. Explain Wet granulation method in detail. (10)
- 2) Discuss various quality control tests for Hard gelatin capsules. (10)
- 3) What do you mean by parenteral products? Discuss various routes of parenteral administration. (10)

Section B

Answer all the questions.

Short Answer Questions (6 x 5 marks = 30 marks)

- 4) Add a note on different types of semisolid bases. (5)
- 5) Enlist various approaches used to increase the aqueous solubility of the drugs. Explain any TWO approaches in detail. (5)
- 6) Explain any TWO types of Transdermal drug delivery systems (5)
- 7) Write a note on Ocuserts. (5)
- 8) Discuss the Extraction of gelatin with the help of a flowchart. (5)
- 9) Mention different evaluation tests for parenteral preparations. Explain Sterility testing. (5)

Section C

Answer all the questions.

Give Reasons for the Following (5 x 2 marks = 10 marks)

- 10) Type 1 Glass is preferred in the packaging of parenteral products (2)
- 11) Pyrogens should not be present in parenteral preparations. (2)
- 12) Nasal route is used for brain targeted drug delivery. (2)
- 13) Enteric coating of tablets is required in certain conditions (2)
- 14) Direct compression method is beneficial over other methods of tableting. (2)

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