

Question Paper

Exam Date & Time: 04-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

III Pharm D University Examination May 2024

Pharmaceutical Formulations [PCE 3.6T-S1]

Marks: 70

Duration: 180 mins.

A: Long Answer Questions

Answer all the questions.

Draw diagrams wherever necessary

- 1) Describe the routes of parenteral drug administration. (10)
- 2) Explain the concept of sustained release dosage forms. (10)
- 3) Define tablets. What are different types of tablets? Explain Wet granulation method in detail. (10)

B: Short Answer Questions

Answer all the questions.

- 4) Describe the types of water used in parenterals. (5)
- 5) Describe any two types of ointment base. (5)
- 6) What are the advantages and disadvantages of mucoadhesive drug delivery systems? (5)
- 7) Add a note on Official Quality control tests for hard gelatin capsules. (5)
- 8) Discuss different filling methods for liquid orals. (5)
- 9) Explain Extraction of gelatin with a flow chart. (5)

C. Give Reasons for the Following

Answer all the questions.

- 10) Equipment for distillation of water for parenterals is made of grade 316 stainless steel. Give reason. (2)
- 11) Nasal route avoids first pass metabolism. Give reason. (2)
- 12) Glidants and lubricants are used in tablet preparation. Give reasons. (2)
- 13) Base adsorption value is important in capsule formulation. Give reason. (2)
- 14) Emulsions are filled in the containers having wide mouth and more head space. (2)

-----End-----