

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmaceutics) (Sem.-2)
COMPUTER AIDED DRUG DELIVERY SYSTEM

Subject Code : MPH-203

M.Code : 74963

Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. a. Summarize the history of computers in pharmaceutical research and development. (8)
b. Explain regulatory and industrial view on QbD. (7)
2. a. Explain BCRP and OCT Transporters. (8)
b. Give the modeling techniques for drug absorption and solubility. (7)
3. a. What is optimization? Explain optimal design with atleast one example. (8)
b. Explain the use of optimization designs in the preparation of microemulsion. (7)
4. Write short note on :
a. In vitro dissolution kinetic models. (5)
b. Fed vs Fasted state (5)
c. Virtual trial (5)
5. Write short note on :
a. Artificial Intelligence (8)
b. Robotics (7)
6. a. Highlight the computer simulations in isolated tissues. (8)
b. Explain the application of IVIVC in availing biowaivers from pharmacokinetics. (7)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.