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Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmaceutics) (2017 Batch) (Sem.-2)

COMPUTER AIDED DRUG DELIVERY SYSTEM

Subject Code : MPH-203

M.Code : 74963

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.

