Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   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) Write the benefits of pharmaceutical automation in packaging.   5

   b) Explain the computational modelling concept with respect to drug absorption and solubility.   5

   c) Differentiate Descriptive and Mechanistic modelling.   5

2. a) Write about efflux transporters with suitable examples.   7

   b) Describe the applications of computational fluid dynamics in pharmacy.   8

3. Outline the quality by design concept in pharmaceutical product development with respect to International conference on harmonization guidelines.   15

4. a) Discuss the role of computers in pharmaceutical emulsions development.   7

   b) "*Why and how the innovative use of computer in R & D can be legal protected*". Comment.   8

5. Give an overview of artificial intelligence and its application in pharmaceuticals. Comment on challenges and its future perspective.   15

6. Enumerate the history of computers in pharmaceutical research & development.   15

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.