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Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy(Pharmacology) (Sem.-2)
PRINCIPLES OF DRUG DISCOVERY

Subject Code : MPL-203T

M.Code : 74945

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. Describe the methods used for target identification. 7.5
b. Describe the various objectives of lead optimization citing suitable examples. 7.5
2. a. What is the principle of combinatorial chemistry? Describe its role in lead identification. 5
b. What is homology modeling? Discuss the modeling of structurally conserved region in it. 5
c. Discuss threading in protein modeling. 5
3. a. Compare modern rational drug design methods with that of the traditional ones. 5
b. Give brief account on validation of pharmacophore models. 5
c. What are the different types of virtual screening? 5
4. a. "Flexible docking is better than rigid docking". Justify by citing suitable examples. 5
b. Discuss Hansch model of traditional QSAR. 5
c. Give brief account of electronic descriptors used in 2D-QSAR. 5
5. a. Describe PLS method and its advantages over other multivariate statistical methods. 5
b. What is the principle of CoMFA? 5
c. Discuss contour analysis of CoMFA. 5
6. a. Discuss the rational of prodrug designing. 5
b. Describe various applications of prodrug designing by citing one example of each. 10

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.

