

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharma(Pharmaceutical Chemistry) (Sem.-1)

ADVANCED MEDICINAL CHEMISTRY

Subject Code : MPC-103T

M.Code : 74665

Date of Examination: 14-01-2023

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of SIX questions.**
 - 2. Each question carries FIFTEEN marks.**
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1.
 - a. Discuss any one modern method of lead identification.
 - b. Name various types of receptor. Give general mode of activation of receptors.
 - c. Explain electrostatic forces involved in drug receptor interactions.
 2.
 - a. Describe the applications of prodrug to improve drug absorption and distribution.
 - b. Explain the concept of analog designing by homologation of alkyl chain or alteration of chain branching.
 3.
 - a. Briefly describe anti-hypertensive activity according to various mechanisms of action.
 - b. Discuss the SAR of phenothiazine and thioxanthene neuroleptics.
 - c. Describe synthesis and mechanism of action of Rofecoxib.
 4. Describe the enzyme inhibitors on the basis of their kinetics? Describe the designing of non-covalent enzyme inhibitors.
 5.
 - a. Describe Farmer's rules for designing of peptidomimetics.
 - b. Describe the designing of peptidomimetics by incorporating local conformational constrain.
 - c. Describe the chemistry of prostaglandins.
 6. **Write short notes on any two :**
 - a. Structural requirements for H₂ antagonism.
 - b. Structure activity relationship of ACE inhibitors
 - c. Enantio-selectivity in drug absorption

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.