

AV – 2358

Eighth Semester B. Pharm. Examination

MEDICINAL CHEMISTRY - IV

Paper - T 8-2

(USC – 35182)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 60

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- Note :** (1) All questions carry equal marks.
(2) Answer **Five** questions.
(3) Discuss the reaction, mechanism wherever necessary.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Write a detail account on rational drug design. Give its advantages over conventional drug design. 12
2. Explain the term Lead identification. Discuss importance of Natural Product and Microbial sources in Lead identification. 12
3. What is QSAR ? Explain in detail Hansch analysis and Topliss decision tree methods. 12
4. Explain lipophilicity and steric parameters in QSAR approach to drug design. 12
5. Discuss in detail structure based drug design with examples. 12
6. Discuss principle and applications of molecular modeling. Explain in detail molecular mechanics. 12

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P.T.O.

7. Write a note on (any **Two**) :—

- (a) Gene therapy.
- (b) Ligand design based on 3D structure of receptor.
- (c) Antisense oligonucleotides.

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