

B. Pharm. Eighth Semester
35182 : Medicinal Chemistry - IV : T-8.2

P. Pages : 1

Time : Three Hours



AU - 0695

Max. Marks : 60

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

1. Explain the term QSAR. Give its applications. Discuss Hansch analysis and Topliss decision tree methods in QSAR approach to drug design. 12
2. What are QSAR Parameters? Explain in detail lipophilicity and steric factors. 12
3. Explain in detail rational drug design. Give its advantages. 12
4. Explain in detail Gene therapy. Give its applications. 12
5. What is molecular modeling? Explain in detail molecular mechanics. 12
6. Explain in detail lead identification. Give examples of Natural product sources and microbial sources. 12
7. Write a note on **any two**. 12
 - a) Structure based drug design.
 - b) Ligand design based on 3D structure of receptor.
 - c) Monte Carlo simulations.
