

1. Explain Random screening and Non- Random Screening in lead discovery.
2. Briefly describe the genetic principles of drug resistance.
3. Describe the SAR of Benzodiazepines.
4. Explain Michaeli's – Menten Equation.
5. Discuss the chemistry of Thromboxanes.
6. Write a note on the therapeutic values of Peptidomimetics.
7. Briefly explain the principles involved in enzyme inhibition.
8. Discuss the theory of drug- receptor interactions.
9. Define analog design. Discuss the changes in ring size, ring position isomers and variation of atomic distance strategies in analog design.
10. Give an account on Enantioselectivity in drug absorption, metabolism, distribution and elimination.
11. Discuss the rational design of Non-covalently and covalently binding enzyme inhibitors.
12. Write a note on design of Peptidomimetics by manipulation of amino acids and modification of peptide back bone.
13. Give an account on Purine nucleoside and nucleotides used in Antiviral Therapy with special emphasis on Mode of action.
14. Define classify Prodrugs. Write a note on rationale of prodrug design with examples.