



Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer **FOUR** questions

ANSWER ANY FOUR

4 X 25 = 100 Marks

1. (a) New drug for AIDS has been discovered. Describe the procedures involved in IND and NDA submissions for the same.
(b) Discuss various types of drug interactions with examples.
2. (a) Describe in detail the study of acute and sub acute toxicity of a new drug.
(b) Explain the principles involved in RIA.
3. (a) Define bio-availability, describe the various parameters measured in bio-availability studies with their therapeutic importance.
(b) Discuss in brief, the four main types of receptor-mediated drug action with examples.
4. Describe the major pre-clinical screening procedures for the following:
(a) Drugs for peptic ulcers.
(b) Drugs for Parkinsonism.
(c) Local anaesthetics.
5. (a) Explain the factors that modify drug pharmacokinetics.
(b) Why are bioassays preferred to other methods of assays? What are the difficulties faced in standardization of bioassays? Illustrate the principles of bioassays with the help of some examples.
6. Write short notes on any Five of the following:
(a) Non Parametric test.
(b) Transgenic animals.
(c) Application of student's t-test.
(d) Measures of variability.
(e) MES Method.
(f) Adverse drug reaction.

* * * * *