

Pharmacological and Toxicological Screening Methods-I**Q.P. CODE: 5135**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)**3 X 10 = 30 Marks**

1. What are various animal models for evaluation of antiulcer drugs? Write any two preclinical models for screening of anti-parkinsonism drugs.
2. Explain the three preclinical screening models for anti-epileptics
3. Explain the three preclinical screening models for anti-hypertensive agents
4. Explain the three methods of evaluating anti-cancer drugs.

SHORT ESSAY (Answer any Nine)**9 X 5 = 45 Marks**

5. What are the applications of transgenic animals in research?
6. What are the breeding techniques of laboratory animals?
7. Explain the principle and method of MTT assay.
8. Write any two preclinical evaluation method for Immunosuppressant
9. Explain any two pharmacology screening method for anti-diabetic agents.
10. List out the methods for screening of antidiarrhoeal activity and explain any one of them
11. Enumerate the *in-vitro* and *in-vivo* animal model for screening of anti-inflammatory agents.
12. Enlist the *in vivo* preclinical model for anti-dyslipidemic agents. Explain any one *in vitro* model for screening of anti-dyslipidemic agents.
13. How do you conduct the immunoassay of insulin and digoxin?
14. How do you differentiate the heterogeneous and homogenous immunoassay systems?

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