

Time: Three Hours

Max. Marks: 100 Marks

Pharmacological Screening Methods and Clinical Evaluation

(Revised Scheme 4)

Q.P. CODE: 9350

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary. Answer any ten questions.

LONG ESSAY (Answer any TEN)

10 X 10 = 100 Marks

1. List various methods to screen analgesic agents and discuss any one.
2. Enumerate methods to induce arrhythmia. Write a note on reperfusion arrhythmia.
3. Enumerate various methods to evaluate a compound for anti-diabetic activity. Explain one in vitro method and chemically induced diabetes method in rat.
4. Discuss one in vivo model to screen an agent for treatment of grandma and petitmal epilepsy.
5. Discuss types of animal cell cultures and give their applications in preclinical research.
6. Discuss any one process of preparation of transgenic animals and write the applications of transgenic animals in pharmacology research.
7. What are biomarkers? Classify them and mention their applications.
8. Explain the concept of apparent volume of distribution. What are the uses of pharmacokinetic models?
9. Explain the concept and importance of pharmacovigilance in drug safety.
10. Explain the process of protocol writing in clinical trial.
11. Describe two preclinical models to evaluate nootropic activity.
12. Explain various animal models to evaluate antiulcer agents.

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