

Rajiv Gandhi University of Health Sciences, Karnataka
First Semester M. Pharm Degree Examination - 02-Jun-2023

[Time: 3 Hours]

[Max. Marks: 75]

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.

Answer All The Questions

10 x 7.5 = 75 Marks

1. List the various preclinical screening methods for evaluation of antiepileptic activity. Explain two *in-vivo* and one *in-vitro* method.
2. Enumerate screening methods for antipsychotic drugs and explain pole climbing avoidance test in rats.
3. Explain two *in-vitro* and two *in-vivo* method to screen anti-inflammatory agents.
4. List the methods to screen antidiabetic agents. Discuss the euglycemic clamp technique and method to evaluate alpha glucosidase inhibitory activity.
5. What are transgenic animals? Give their four uses in pharmacology.
6. Write a note on preclinical screening methods for drugs used in Alzheimer's disease.
7. Discuss one *in-vitro* and two *in-vivo* method to evaluate a drug for antidepressant activity.
8. Explain four methods to evaluate antiallergic activity of a new moiety.
9. Write a note on preclinical screening methods for antidiarrhoeal agents.
10. Write a note on alternatives to animal experiments in pharmacology.

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