[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.

## LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

- 1. Enumerate methods to evaluate antidepressant activity of an agent. Discuss one *in-vitro* and one *in-vivo* method.
- 2. What are the mechanisms by which antianxiety agents act? List the screening methods and discuss any two methods.
- 3. List out the various screening methods for antiulcer activity. Discuss one stress induced and one chemically induced ulcer model.
- 4. List the commonly used methods to screen an agent for antihypertensive agents. Discuss one *in-vitro* and one *in-vivo* method.

## SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- 5. Write a note on the pharmacological uses of rat as laboratory animal.
- 6. Write a brief note on maintenance of laboratory animals.
- 7. Explain two models for screening an agent for antiparkinsonian activity.
- 8. Explain a model to evaluate central analgesic activity of an agent.
- 9. Write a note on preclinical screening methods of antiemetic agents.
- 10. Explain two preclinical models to evaluate antipyretic activity of an agent.
- 11. Enumerate the models for screening of antianginal activity and explain the Langendorff technique.
- 12. List the methods to screen antidiabetic agents, explain any one model.
- 13. Write a note on limitations of animal experimentation.
- 14. Write a note on immunoassays.

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