

# Question Paper

Exam Date & Time: 30-Dec-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

**Pharmacological and Toxicological Screening Methods I [PHA-MPL103T - S3]**

**Marks: 75**

**Duration: 180 mins.**

### SECTION - A

**Answer all the questions.**

Answer the following (10 marks x 5 = 50 marks)

- 1) Discuss the requirements for animal research facility and recommended techniques of blood withdrawal for small laboratory animals. (10)
- 2) Classify various screening techniques used for antipsychotic drugs. Explain any two methods that are commonly employed to evaluate antipsychotic drugs. (10)
- 3) List the screening methods for antiulcer activity using rats or mice. Explain two methods in detail. (10)
- 4) Classify various animal models to screen antihypertensive drugs. Explain any two in detail any two models. (10)
- 5) Name the different types of ELISA. Explain any one type in detail. (10)

### SECTION - B

**Answer all the questions.**

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain the principle and procedure of rota-rod experiment. (5)
- 7) Write any five limitations of animal experiments. (5)
- 8) Discuss any two methods to screen analgesic drugs using animals. (5)
- 9) Discuss any one method to screen antihypertensive drugs. (5)
- 10) Differentiate between immunosuppressant and immunostimulant drugs. Explain how you can evaluate such drugs using adjuvant arthritis model in rats. (5)

-----End-----