

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**M. Pharm. Winter 2022-23 Examination**

**Semester: 1****Subject Code: MPL103T****Subject Name: Pharmacological and toxicological screening methods - I****Date: 17/03/2023****Time: 10:00 am to 1:00 pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each) (30)**

1. a) Write Scientific names, description, handling and applications of common laboratory animals.  
b) Discuss General principles of preclinical screening. Write Screening tests for anxiolytic.
2. a) Enumerate different models for screening of anti-inflammatory drugs write in detail about any two acute models for it.  
b) Enlist the types of hypertension models. Explain in detail any 2 models.
3. Define immunoassays. Give principle and types of immunoassays. Explain the immunoassay of insulin.

**Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Marks Each) (25)**

1. Enlist & explain methods of Euthanasia in animal experiments.
2. Give various models for screening of agents as anti-Parkinson's Disease. Explain any two model in detail
3. Discuss any two Screening method of anti-emetic drugs.
4. Explain models for evaluation of hepatoprotective activity
5. Discuss the limitations of animal experimentation. Explain alternatives to animals experiments.
6. Name the invivo & invitro Screening method of antihyperlipidemics. Explain one model from each.

**Q.3 Short Answers. (2 Marks Each) (20)**

1. Write the applications of Transgenic animal in Drug screening
2. Define bioassay & write down the principle of bioassay.
3. Discuss any one Screening method for screening antidepressants
4. Discuss any one Screening method for screening anti anxiety drugs.
5. Discuss Lagendroffs technique for screening of Anti arrhythmic drugs
6. Discuss any one Screening method for Aphrodisiac drugs
7. Explain any one method for evaluation of diuretic activity
8. Enlist various methods to evaluate a compound for anti-diabetic activity.
9. Write short note on Good laboratory practice.
10. Write about the pylorus ligation model .