

QP CODE: 113328

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
April 2023
M.Pharm (Pharmacology)**

**Paper III – Pharmacological and Toxicological Screening Methods I
(MPL103T)**

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Explain various preclinical models employed in the evaluation of anti-inflammatory drugs
2. Explain the different *in-vivo* and *in-vitro* methods for the screening of anticancer agents
3. Explain the production, maintenance and applications of transgenic animals

Short Notes

(9x5=45)

4. How will you investigate the drugs used for Parkinson's disease
5. Enlist the limitations of animal experimentation and alternate animal experiments
6. Explain about maintenance and breeding of laboratory animals
7. Add a note on extrapolation of in vitro data to preclinical and preclinical to humans
8. Explain the principle and procedure involved in pylorus ligation technique
9. Enumerate the various screening techniques for anxiolytics and explain any one of them
10. What is euthanasia. Explain the methods of euthanasia
11. Explain the experimental animal models for evaluation of antihypertensive drugs
12. Define bioassay. Explain the principle and methods of bioassay
