

QP CODE: 212328

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
May 2022**

M.Pharm (Pharmacology)

**Paper II: Pharmacological and Toxicological Screening Methods II
(MPL 202T)**

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. Discuss the procedure involved as alternative technique to animal toxicity testing.
2. List out the documents and process needed to be submitted for IND.
3. Discuss the principle and procedure involved in the oral and dermal chronic toxicity studies as per OECD guidelines.

Short Notes

(9x5=45)

4. Discuss the principles involved in toxicokinetics.
5. Explain about HERG assay.
6. Explain fertility and early embryonic development study techniques in rats.
7. Ames test and its importance
8. Discuss the protocol for testing of chemicals acute inhalation toxicity as per OECD guideline.
9. Explain various in vivo carcinogenicity studies
10. Regulatory toxicology
11. Write briefly on Tier II Safety Pharmacology Studies.
12. Chromosomal aberration studies in gene toxicity
