

QP CODE: 212328

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
October 2023**

M.Pharm (Pharmacology)

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

(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. Define toxicokinetics. Explain its importance and applications
2. Classify safety pharmacology studies. Explain in detail any two safety pharmacology studies
3. Mention various OECD acute oral toxicity testing guidelines. Explain how LD₅₀ can be estimated using these guidelines

Short Notes

(9x5=45)

4. Write a note on various regulatory guidelines available for conducting toxicity studies.
5. Explain GLP. Explain the importance of GLP in toxicity testing
6. Teratogenicity studies
7. Explain on acute eye irritation studies
8. Explain the principle behind AMES test
9. Carcinogenicity studies in rodents
10. Explain IND application. Explain the importance of IND enabling studies
11. Mention various alternatives to animal toxicity testing. Explain any one method in detail
12. Define acute dermal toxicity studies
