

**QP CODE: 212328**

**Reg. No:.....**

**Second Semester M. Pharm Degree Supplementary Examinations  
September 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. Define IND. Discuss in detail the studies and formalities to be completed before submitting IND application
2. Explain female reproductive toxicity studies and in vivo carcinogenicity studies
3. Give a detailed description on the alternative animal models in toxicity studies

**Short Notes**

**(9x5=45)**

4. Explain GLP
5. Explain about Genotoxicity studies
6. Discuss the importance of safety pharmacology studies in drug development
7. Explain the applications of toxicokinetic studies
8. HERG Assays
9. Acute and subacute dermal toxicity studies as per OECD Guidelines
10. Schedule –Y
11. Enumerate the components of test item characterization required in toxicology studies
12. Discuss the relevance of regulatory and mechanistic toxicology studies

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