First Semester M.Pharm Degree Supplementary Examinations February 2022
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. Discuss in detail *in-vivo and in-vitro* models for screening antipsychotics

2. Explain *in-vivo and in-vitro* models for preclinical screening of antihypertensive substances.

3. Define bio assay. Explain principle and different methods of bioassay

Short Notes   **(9x5=45)**

4. Explain the immunoassay of Insulin

5. Preclinical screening methods for anti-arrhythmic agents

6. Preclinical screening methods for anti-cancer agents

7. Preclinical screening methods of MES and PTZ models for anti-epileptic agents

8. Methods for screening drugs for anti-anxiety agents

9. Preclinical screening methods for laxatives and anti-diarrheal agents

10. Preclinical screening of analgesics and anti-inflammatory agents

11. Applications of Transgenic animals in experimental pharmacology

12. Explain the screening of anti-diabetic drugs by strepotozotocin and alloxon models

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