

QP CODE: 113328

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations  
March 2020  
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. Classify animal models of type 2 diabetes and explain about various spontaneous diabetic models
2. Classify in vitro and in vivo models of anti-cancer drug screening. Explain any one in vitro and in vivo model in detail
3. Classify laboratory animals. Explain the CPCSEA guidelines for the breeding and maintenance of laboratory animals

**Short Notes**

**(9x5=45)**

4. Briefly explain any two in vitro and in vivo models for evaluating anti Parkinson's activity
5. Briefly explain any two in vitro and in vivo models for evaluating anxiolytic activity
6. Explain how aphrodisiac activity is evaluated in rodents
7. Explain Eddy's hot plate screening method
8. Explain shay rat screening model
9. Advantages and disadvantages of animal experiments
10. Describe the immunoassay of digoxin and insulin
11. Transgenic animals
12. Alternatives to animal testing

\*\*\*\*\*