

**QP CODE: 113328**

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

**First Semester M.pharm Degree Examinations April 2018**

**M.Pharm (Pharmacology)**

**Paper III – Pharmacological and Toxicological Screening Methods I  
(MPL103T)**

**Time: 3 Hours**

**Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Describe the method of production, maintenance and applications of transgenic animals
2. Classify animal models available for screening antiepileptic activity. Explain any two models in detail
3. Classify in vitro and in vivo models available for screening peripheral analgesic and anti-inflammatory activities. Explain in detail one in vitro and in vivo model for each

**Short Notes**

**(9x5=45)**

4. Hepato protective screening methods
5. Explain the STZ model of diabetes
6. Animal models for screening anti-dyslipidemic drugs
7. Briefly describe the in vitro models available for screening anticancer activity
8. 3Rs Principles for the welfare of experimental animals.
9. Immunoassays
10. Classify bioassays and explain the principles of bioassays
11. Good laboratory practice
12. Explain how to extrapolate in vitro data to preclinical studies.

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