

QP Code: 105328

Reg No:

**First Year M.Pharm Degree Examinations– September 2014
(2011 Scheme)**

(Pharmacology)

Paper I – Pharmacological Screening Methods & Drug Development

Time: 3 hrs

Maximum Marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(2x20 =40)

1. Explain the general principles of bioassay. Explain the specific basic principle and procedure involved in interpolation and four point bioassays with relevant examples.
2. Discuss in detail the following: • Transgenic animal models in the development of new drugs • Screening models for drugs used in Alzheimer's disease

Short Essays:

(6x10=60)

3. Explain the basic principle, methods and application of ELISA test
4. Elaborate the acute, sub acute and chronic toxicity evaluation as per OECD guidelines.
5. Explain the propagation and preservation of cell lines
6. Explain the following : • Applications of two way ANOVA in biomedical research • Procedure of intra-cerebro-ventricular administration in rats
7. Discuss about CPCSEA guidelines for laboratory animal facility and animal welfare requirements
8. Explain the concepts of high throughput screening, lead identification and lead optimization
