

QP Code:103112

Reg.No.:.....

**PG Degree Supplementary Examinations in Pharmacology (MD) -  
November 2013**

**Paper III - Experimental Pharmacology, Bioassay and Statistics**

**Time: 3 hrs**

**Max marks:100**

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

**Essays:** (20)

1. Describe in detail the screening methods to evaluate drugs for peptic ulcer.

**Short essays:** (8x10=80)

2. ANOVA
3. Principles in sample size estimation for clinical trials
4. Methods in 3-point bioassay
5. Animal tests to evaluate teratogenicity
6. Describe blood collection in rats and rabbits
7. Methods and applications of DNA recombinant technology
8. Ethical principles and guidelines for animal experiments
9. Animal models for analgesic drugs

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