

**PG Degree Supplementary Examinations in Pharmacology (MD)**  
**November 2022**

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

**Time: 3 hrs**

**Max marks:100**

- *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*

**Essay:**

**(20)**

1. Describe the various preclinical experimental methods to evaluate the potential antipsychotic activity of a new chemical entity.

**Short essays:**

**(8x10=80)**

2. Rabbit as an experimental animal.
3. Analysis of Variance.
4. Blood collection methods in experimental animals.
5. Acute toxicity studies in animals.
6. Sample size calculation for a research proposal.
7. Measures of central tendency.
8. Induction of diabetes mellitus in experimental animals.
9. Current status of bioassay.

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