

**PG Degree Regular/Supplementary Examinations in Pharmacology  
(MD) January 2025**

**Paper IV - Clinical Pharmacology and Recent Advances**

**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 phases of clinical trial. Describe the different types of bias in research. Explain the ways to reduce bias.

**Short essays:**

**(8x10=80)**

2. Types of review done by ethics committee.
3. Newer drugs in the treatment of tuberculosis.
4. Cross-sectional study design.
5. Pharmacogenetics in drug discovery and drug development.
6. Chromatography and its applications.
7. Therapeutic drug monitoring.
8. Essential drug concept.
9. Advances in drug delivery system.

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