

**PHARMACOLOGY**

**PAPER-III**

Time: 3 hours  
Max. Marks:100

PHARM/D/19/34/III

**Important Instructions:**

- *Attempt all questions in order.*
- *Each question carries 10 marks.*
- *Read the question carefully and answer to the point neatly and legibly.*
- *Do not leave any blank pages between two answers.*
- *Indicate the question number correctly for the answer in the margin space.*
- *Answer all the parts of a single question together.*
- *Start the answer to a question on a fresh page or leave adequate space between two answers.*
- *Draw table/diagrams/flowcharts wherever appropriate.*

**Write short notes on:**

1. Give an outline of experimental methods for evaluating antiepileptic drugs. 10
2. Discuss in details the pharmacological screening of a natural product with potential antihypertensive activity. How would you locate the site of antihypertensive action? 8+2
3. How would you design the toxicity studies for new synthetic compounds with anti-inflammatory activity? 10
4. Importance of biostatistics in medical experimentations. 10
5. Discuss the considerations and approach to calculate minimum sample size for clinical trial of a new drug in comparison with standard therapy. 10
6. Why the measures of Confidence Interval (CI) should be added with p-value during writing result of a clinical research? 10
7. a) Attributable risk reduction. 5+5  
b) Multivariate regression analysis.
8. Explain with examples "Safety Pharmacology" studies in new drug development. 10
9. Briefly outline the laboratory animal facility as per CPCSEA. 10
10. Write a commentary on per-protocol vis-à-vis intention to treat analysis. 10

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