

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
