

PHARMACOLOGY**PAPER-III**Time: 3 hours
Max. Marks:100

PHARMA/J/20/34/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. Outline the differences between Intent to Treat and Per Protocol analyses. Explain the advantages and disadvantages of each of them. 5+5
2. Discuss experimental methods for evaluation of a potential analgesic agent. 10
3. a) Parametric Versus Non-Parametric tests. 5+5
b) Confidence Intervals.
4. Discuss the constitution & functions of Institutional Animal Ethical Committee (IAEC). 5+5
5. a) Sample size calculation in clinical trials. 5+5
b) H index.
6. a) Describe High-throughput Drug Screening Methods 5+5
b) Discuss the importance and principle of high pressure liquid chromatography.
7. Discuss the experimental evaluation methods for a potential diuretic agent. Add a note on LIPSCHITZ test. 10
8. a) Kaplan meir survival curve. 5+5
b) Systematic Review.
9. a) R-Principles of Alternatives to Animal Experimentation. 5+5
b) Proteomics.
10. What is a forest plot? Where is it used? How will you read and assess a study/studies with the help of it? 2+3+5
