

PHARMACOLOGY

PAPER-III

Time: 3 hours
Max. Marks:100

PHARM/J/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:

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| 1. | Discuss the applications of immunology for assay of drugs with suitable examples. | 10 |
| 2. | Transgenic animals in pharmacological studies. | 10 |
| 3. | Describe various methods for evaluation of drugs potentially useful for treatment of peptic ulcer. | 10 |
| 4. | a) Probit analysis.
b) Kaplan Meier survival analysis. | 5+5 |
| 5. | Principles of bioassay and its application. | 7+3 |
| 6. | Discuss briefly advantages and limitations of animal testing of drugs. | 5+5 |
| 7. | Calculation of human equivalent dose from animal studies. | 10 |
| 8. | Role of artificial intelligence in research with examples. | 10 |
| 9. | What is Metaanalysis? Discuss its usefulness and limitations in research. | 4+(3+3) |
| 10. | Discuss the experimental evaluation methods for a potential antidepressant drug. | 10 |
