

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

PHARM/J/19/34/IV

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. | a) Ecopharmacovigilance.
b) Follow on drugs. | 5+5 |
| 2. | a) Drugs of abuse in sportsperson.
b) Paradoxical pharmacology | 5+5 |
| 3. | What are the conditions of permission for conduct of bioavailability or bioequivalence study as per the New Drugs and Clinical Trials Rules? | 10 |
| 4. | Uses and limitations of virtual clinical trials. | 6+4 |
| 5. | Recent advances in the treatment of type 2 Diabetes Mellitus. | 10 |
| 6. | Discuss briefly cell penetrating peptides. What are their therapeutic applications and challenges involved? | 4+(3+3) |
| 7. | Orphan drugs and their impact on pharmaceutical development. | 5+5 |
| 8. | Role and responsibilities of ethics committee in clinical trials. | 10 |
| 9. | Monoclonal antibodies in therapeutics. | 10 |
| 10. | Enumerate and briefly discuss methods of reporting of adverse drug reactions. | 2+8 |
