

PHARMACOLOGY
PAPER-IV

PHARMA/D/17/34/IV

Time: 3 hours

Max. Marks: 100

- *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 question 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. | a) Mention ethical issues in biomedical research on human subjects. | 5+5 |
| | b) What are the regulatory requirements for conduct of clinical trial in India? | |
| 2. | a) Application of Biotechnology in Medicine | 5+5 |
| | b) Orphan drug | |
| 3. | a) Monoclonal antibodies in therapeutics | 5+5 |
| | b) Role of TNF-alpha blockers in rheumatoid arthritis | |
| 4. | a) Enumerate teratogenic drugs | 4+6 |
| | b) Role of GnRH in infertility | |
| 5. | a) Current status of malaria and dengue vaccine. | 5+5 |
| | b) Antibiotic stewardship programme. | |
| 6. | a) Why and where therapeutic drug monitoring is required? | 5+5 |
| | b) Mention its usefulness, limitations in patient management giving example. | |
| 7. | a) Characteristics of various phases of clinical trials | 6+4 |
| | b) Microdosing | |
| 8. | a) Off label use of drugs with examples. | 4+6 |
| | b) Medication errors, types and role of pharmacologist to control in hospital | |
| 9. | a) Recent advances in drug treatment of HIV infection | 5+5 |
| | b) Signal detection in medicine safety | |

- POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.