

PHARMACOLOGY
PAPER-III

PHARMA/D/17/34/III

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:

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|----|---|-----|
| 1. | a) Chi Square test and its application in pharmacological research | 5+5 |
| | b) Principle and method of determinants of sample size calculations for clinical trials | |
| 2. | a) Current strategies to overcome antimicrobial resistance | 5+5 |
| | b) Pharmacotherapy of osteoporosis | |
| 3. | a) Mention targeted cancer therapies giving examples. | 5+5 |
| | b) Mechanism of action and potential uses of bevacizumab. | |
| 4. | a) Enumerate current drugs used for leishmaniasis with their merits and demerits | 5+5 |
| | b) Mechanism of action and adverse reaction of miltefosine | |
| 5. | a) Enumerate anti-malarial drugs used as radical curatives and gametocytocidal | 4+6 |
| | b) Pharmacotherapy of chloroquine resistant malaria | |
| 6. | a) What are the differences between conventional and atypical anti-psychotic agents? | 5+5 |
| | b) Enumerate drugs with their mechanism of action for cognitive deterioration. | |
| 7. | a) Write the difference between succinylcholine and d-tubocurarine | 5+5 |
| | b) Pharmacotherapy of migraine | |

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| 8. | a) Enumerate various class of drugs used in cardiac arrhythmias. | 5+5 |
| | b) Clinical pharmacology, adverse reactions and therapeutic uses of sotalol | |
| 9. | a) Discuss pharmacotherapy of multi-drug resistant tuberculosis. | 5+5 |
| | b) Outline mechanisms and adverse effect of drugs used in leprosy. | |
| 10. | a) Rational antihypertensive drug combinations. | 5+5 |
| | b) Role of vasozeptidase inhibitor in cardiac failure. | |