

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:

- 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
- a) Current strategies to overcome antimicrobial resistance 5+5
 - b) Pharmacotherapy of osteoporosis
- a) Mention targeted cancer therapies giving examples. 5+5
 - b) Mechanism of action and potential uses of bevacizumab.
- a) Enumerate current drugs used for leishmaniasis with their merits and demerits 5+5
 - b) Mechanism of action and adverse reaction of miltefosine
- a) Enumerate anti-malarial drugs used as radical curatives and gametocytocidal 4+6
 - b) Pharmacotherapy of chloroquine resistant malaria
- 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.
- 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 vasopeptidase inhibitor in cardiac failure. | |

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