

PHARMACOLOGY

PAPER-IV

Time: 3 hours
Max. Marks:100

PHARMA/J/20/34/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:

- a) Role of placebo in therapeutics. 5+5
 - b) Role of surrogate markers in clinical trials.
- Cardiovascular Outcome trials (CVOT). 10
- Status of various therapies in COVID-19. 10
- a) Microdosing Studies. 5+5
 - b) Biosimilars.
- a) Hemovigilance. 5+5
 - b) Drug utilization metrics.
- What are the approaches to reduce antibiotic resistance in clinical use? 10
- Salient features of the new drugs and clinical trials rule (2019) in India. 10
- a) Drug repurposing. 5+5
 - b) Microbiota in therapeutics.
- a) Good Clinical Practice. 5+5
 - b) Waiver of Informed Consent in a Clinical Trial.
- Status of malaria and dengue vaccines. 10
