

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
