

PHARMACOLOGY**PAPER-IV**Time: 3 hours
Max. Marks:100

PHARM/D/20/34/IV

Important Instructions:

- **You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.**
- **Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.**
- **No additional supplementary answer sheet booklet will be provided.**
- 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:

1. Define drug repositioning with suitable examples. Describe the advantages of drug repositioning and challenges involved. 5+5
2. Describe in brief about need and objectives of materiovigilance programme of India. 10
3. Critically evaluate current status of therapeutics used in COVID-19 care. 10
4. Recent advances in pharmacotherapy of heart failure. 10
5. Enumerate newer anticoagulants. Describe in brief the mechanism of action and therapeutic uses of oral anticoagulants. 3+7
6. What is evidence based medicine? What are the levels of evidence? 3+7
7. Define polypharmacy with suitable example(s). Write briefly on its advantages and disadvantages of it. 3+7
8. Describe general principles of hospital antibiotic policy. 10
9. a) Periodic safety update report (PSUR). 5+5
b) No observable adverse effect level (NOAEL).
10. Describe in brief vaccine-development process. How does it differ from drug-development process? 5+5
