

**PHARMACOLOGY**

**PAPER-I**

PHARM/D/19/34/I

Time: 3 hours  
Max. Marks: 100

**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:**

1. Discuss drug repurposing emphasizing its benefits. What might be the adverse consequences of ever greening of pharmaceutical patent? 7+3
2. Describe target concentration intervention (TCI) for optimization of drug treatment. How does it differ from TDM (Therapeutic Drug Monitoring)? 6+4
3. Explain how preparing own P-formulary can facilitate prescribing rationally? Write a short commentary on individualization of therapy as an indispensable step of rational use of medicine. 5+5
4. Explain how health technology assessment can help in rational use of drugs? What is its status in India? 6+4
5. What is medication error? How many types of error can you detect in a tertiary care hospital? Mention strategies to prevent these in busy clinical settings. 2+4+4
6. Briefly discuss about the pharmacological considerations on drug therapy in elderly individuals. Give examples and brief description of specific clinical tools (charts) which can aid in drug therapy in elderly patients. 7+3
7. Give your comments on importance and limitations of evidence based medicine in clinical practice. Enumerate by giving suitable examples with appropriate reasoning the rationality of various approved Fixed Dose Combinations. 4+6
8. How a nomogram can help in selection of appropriate dose of a drug? Explain with examples. What are the clinical implications of plasma protein binding of a drug? 5+2+3
9. Define Apparent Volume of Distribution of a drug. Discuss by giving suitable examples the various factors governing volume of distribution. 4+6
10. Define Drug - Drug Interaction. Enumerate various groups of drugs likely to be involved in drug interactions. Explain pharmacokinetic drug interactions by giving suitable examples. 3+2+5

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