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PHARMACOLOGY

PAPER-I

Time: 3 hours PHARM/J/19/34/I

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.	a) Nonlinear pharmacokinetics.b) Volume of distribution.	5+5
2.	Define essential medicines. Discuss the criteria for selection of essential medicines with special emphasis on challenges faced in India.	3+(4+3)
3.	Define plasma half-life of a drug. Discuss factors which modify half-life of a drug. Discuss clinical implications of half-life.	2+4+4
4.	Determination of drug levels in body fluids.	10
5.	What is pharmacogenomics? Discuss its impact on pharmacotherapeutics.	4+6
6.	a) Voltage gated ion channels. b) Autoreceptors.	5+5
7.	Discuss briefly prescribing consideration in physiological and pathological conditions with suitable examples.	10
8.	a) Pharmacoeconomics and its role in Indian health care system.b) Counterfeit medication and their health risks.	5+5
9.	Functions and clinical significance of P-glycoproteins.	5+5
10.	a) Herb-drug interactions.b) Biased agonism with examples.	5+5
