PHARMACOLOGY PAPER-I

Time: 3 hours PHARMA/J/20/34/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.	What is the importance of ABC transporters in drug absorption & elimination? Enumerate the drugs which are significantly affected by ABC transporters.	6+4
2.	What is Pharmacovigilance? Outline National & International initiatives taken for Pharmacovigilance. Discuss methods of causality assessment and their role in Pharmacovigilance.	2+4+4
3.	a) Fetal therapeutics.b) Teratogenicity.	5+5
4.	Discuss the application of clinical pharmacokinetic principles in drug development.	10
5.	a) Performance enhancing drugs.b) Biosimilars.	5+5
6.	What is Pharmacogenetics? Describe its principles. Discuss its role in clinical practice.	3+3+4
7.	Discuss how the principles of chronopharmacology can improve drug therapy.	10
8.	a) Explain nanoparticle dosage forms and their clinical applications.b) Drug clearance.	5+5
9.	What is NLEM and its importance? What are the important factors taken into consideration for inclusion of drugs in the NLEM?	5+5
10.	a) Inverse agonist.b) Importance of drug food interaction.	5+5
