

Q.P. Code: 106340

Reg. no.:

**First Pharm D Post Baccalaureate Degree Regular/Supplementary
Examinations June 2023**

Paper VI – Biopharmaceutics & Pharmacokinetics

Time: 3 Hours

Total Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays:

(3x10=30)

1. Discuss about renal clearance.
2. Explain the protocol for bioequivalence study.
3. Discuss about Two compartment open model for IV bolus administration.

Short notes:

(8x5=40)

4. Discuss about Biotransformation- Glucuronidation reactions.
5. Mamillary model.
6. Mention the theories of drug dissolution and explain any one of them.
7. Discuss about the Latin square design for cross over bioequivalence study.
8. What are strategies adopted for transporting drug across blood placental barrier.
9. BCS classification.
10. Discuss about the Cell membrane structure and Physiology.
11. Difference between the Absolute and relative bioavailability.
