

**Q.P. Code: 405326**

**Reg. no.: .....**

**Fourth Year Pharm D Degree Supplementary Examinations  
October 2023**

**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 one compartment open model for IV bolus administration.
2. Explain various factors influencing renal excretion of drugs.
3. Briefly explain bioavailability study protocol.

**Short notes:**

**(8x5=40)**

4. What are the strategies adopted for transporting drug across blood brain barrier.
5. Write a note on physiological model.
6. What are all the causes for non-linearity.
7. Write a note on Wagner Nelson method.
8. Describe about binding of drugs with Human serum albumin.
9. Explain the role of intestinal transit time on drug absorption.
10. Discuss about Biotransformation – hydrolysis reactions with examples.
11. Briefly write about creatinine clearance.

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