

**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. Discuss about methods for enhancement of bioavailability.

**Short notes:**

**(8x5=40)**

4. What are strategies adopted for transporting drug across simple capillary endothelial 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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<b>CORRECTION / NO-CORRECTION FILE</b>
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**QPCODE: 405326**

**Dated: 27-10-2023**

**Question No.3**

**Replaced with "Briefly explain bioavailability study protocol."**

**Question No.4**

**Modified as "What are the strategies adopted for transporting drug across blood brain barrier."**

**Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.**

(Sd/-)

**CONTROLLER OF EXAMINATIONS**