

Q.P. Code: 405326

Reg. no.:

**Fourth Year Pharm D Degree Special Supplementary Examinations
September 2024**

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. Explain in detail the patient related factors affecting drug absorption
2. Enumerate the protocol of bio equivalence study
3. Discuss the Michaelis Menten Equation

Short notes:

(8x5=40)

4. Discuss the theories of dissolution
5. Distinguish single versus multiple dose bioavailability studies
6. Biopharmaceutical Classification Systems
7. Explain the pharmacokinetics parameters from Plasma concentration time curve
8. Impact on polymorphism on drug absorption
9. Discuss about the Blood Brain Barrier for the drug distribution
10. Discuss about Biotransformation- Sulphation reactions
11. Total body clearance
