

Q.P. Code: 106340

Reg. no.:

**First Pharm D Post Baccalaureate Degree Regular/Supplementary
Examinations January 2021**

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. Describe the formulation factors role in drug absorption.
2. Discuss glutathione and glucuronic acid conjugation metabolism with suitable examples.
3. How to determine pharmacokinetic parameters in one compartment open model intravenous infusion administration.

Short notes:

(8x5=40)

4. Differentiate carrier mediated transport and endocytosis.
5. Explain the components involved in the real volume of distribution.
6. Describe about salivary excretion.
7. Differentiate therapeutic range and therapeutic index.
8. Explain the merits and demerits of non-compartmental pharmacokinetics.
9. Mention the pharmacodynamic method involved in the determination of bioavailability.
10. Explain the reasons for non-linearity.
11. How to determine absorption rate constant using method of residuals.
