

Q.P. Code: 106340

Reg. no.:

**First Pharm D Post Baccalaureate Degree Supplementary
Examinations July 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. Outline the physicochemical factors affecting drug absorption.
2. Explain the physiological barriers affecting drug distribution.
3. Discuss glutathione and glucuronic acid conjugation with suitable examples.

Short notes:

(8x5=40)

4. Differentiate active transport and passive diffusion.
5. The importance of volume of distribution.
6. Describe about plasma level – time studies.
7. How to determine elimination rate constant by sigma minus method.
8. Describe about salivary excretion.
9. State the reasons for non-linearity.
10. The merits and demerits of non-compartmental pharmacokinetics.
11. Mention the methodology involved in the determination of bioavailability.
