

Q.P. Code: 405326

Reg. no.:

Fourth Year Pharm D Degree Supplementary Examinations July 2021

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 the physicochemical factors affecting drug absorption.
2. Explain the repetitive intravenous injection one compartment open model in detail.
3. How will you determine the pharmacokinetic parameters in one compartment open model after intravenous bolus injection

Short notes:

(8x5=40)

4. Write the factors responsible for non-linearity.
5. Explain the importance of methylation biotransformation with an example.
6. Explain physiological pharmacokinetic model.
7. Explain the significance of protein/tissue binding of drugs
8. Describe the method of residuals for a drug after Oral administration undergoing two compartment model.
9. Write the types of mammillary compartment models.
10. Discuss the importance of statistical moment theory.
11. Write the protocol involved in bioequivalence studies.
