

2010 Scheme

QP CODE: 304006

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations August 2023

Pharmaceutics - V (Biopharmaceutics and Pharmacokinetics)

Time: 3 Hours

Total Marks: 100

- *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 physico chemical factors affecting drug absorption
2. Define biotransformation. Explain phase II reactions of drug biotransformation with examples
3. Derive all parameters of plasma when the drug is given as i.v. infusion following a one compartment open model

Short notes

(14x5=70)

4. Mechanisms of drug absorption
5. Measurement of bioavailability
6. Physiological model to determine pharmacokinetic parameters
7. Method of residuals and its applications
8. Two compartments open model drug administered by i.v. bolus
9. Volume of distribution and its significance
10. Nonlinearity in drug absorption
11. Explain Michaelis Menten's equation
12. Entero hepatic circulation
13. Factors affecting drug distribution
14. Biopharmaceutical classification system
15. Concept of clearance
16. Compartment models
17. Renal clearance
