

2010 Scheme

QP CODE: 304006

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations January 2022

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. Define clearance and discuss the factors affecting the renal clearance
2. Describe the various factors influencing the drug absorption
3. Derive the suitable pharmacokinetic equation for one compartment open model of I.V. Infusion

Short notes

(14x5=70)

4. Plasma protein binding and its significance
5. Reductive reactions
6. Biopharmaceutical classification system
7. Michaelis – Menten equation
8. Physiological barriers of distribution
9. Biliary excretion of drugs
10. Hepatic clearance
11. Measurement of bio availability
12. Design of bio equivalence study
13. Factors affecting drug distribution
14. Concept of clearance
15. Mechanism of drug absorption
16. Determination of first order absorption rate constant in one compartment model
17. Compartment Models
