

2010 Scheme

QP CODE: 304006 (Old Scheme)

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations November 2019

Pharmaceutics - V (Biopharmaceutics and Pharmacokinetics)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essays

(3x10=30)

1. Describe the principal processes in urinary excretion of drugs. Explain how dose adjustment is done in patients with renal failure.
2. Explain various mechanisms of gastrointestinal drug absorption
3. Describe the kinetics of one compartment open model I.V. bolus drug administration.

Short notes

(14x5=70)

4. *In vitro-in vivo* correlation
5. Pharmacokinetics methods for measurement of bioavailability
6. Loading dose
7. Entero-hepatic circulation
8. Glucuronidation conjugation
9. Extraction ratio
10. Binding of drugs to human serum albumin
11. Significance of volume of distribution
12. Blood-brain barrier
13. Reasons for nonlinearity in pharmacokinetics
14. Significance of displacement interaction in plasma protein binding with suitable examples
15. Various pharmacokinetic parameters
16. Determination of first order absorption rate constant by the method of residuals in one compartment model
17. Biopharmaceutical classification system.
