

QP CODE: 314006 (new scheme)

Reg. No:

Third Year B.Pharm Degree Examinations June 2017

PHARMACEUTICS - IV
(Biopharmaceutics and Pharmacokinetics)
(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Describe the physicochemical factors affecting the drug absorption in GIT
2. Define bioavailability and explain the method to measure bioavailability
3. Explain the one compartment open model for intravenous injection (Bolus)

Short notes

(14x5=70)

4. Explain the factors affecting protein-drug binding
5. Explain Biliary Excretion of Drugs
6. Explain Mechanism of Renal Excretion
7. The kinetics of protein-drug binding
8. Define biopharmaceutics classification systems and its importance
9. Define absorption and brief note on transport of drug across biological barrier
10. Define disposition. Write the concept of clearance
11. Apparent volume of distribution and its clinical significances
12. Enlist and explain the specialized barriers to distribution of drugs
13. Name the various Dissolution Apparatus and give a brief note on USP Type I Apparatus
14. The factors affecting the elimination
15. Explain the method of residual for determining absorption rate constant
16. Define pharmacokinetics. Write the various pharmacokinetic parameters
17. *In vitro in vivo* correlations (IVIVC)
