

Third Year B.Pharm Degree Examinations - September 2014

PHARMACEUTICS - V
(Biopharmaceutics and Pharmacokinetics)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Describe the different mechanisms of gastrointestinal drug absorption
2. Discuss the factors influencing drug distribution in the body
3. Any two methods for determination of Michaelis Menton constant in non-linear pharmacokinetics following IV bolus administration

Short notes

(14x5=70)

4. Influence of polymorphism on drugs bioavailability
5. Pharmaceutical factors affecting drug absorption
6. Glucuronidation in biotransformation
7. Binding of drugs to human serum albumin
8. Determination of first order absorption rate constant by the method of residuals in one compartment open model.
9. Different mechanisms of renal clearance of drugs
10. Mammillary compartment modeling
11. Sigma minus method
12. Advantages of pharmacokinetic analysis using urinary excretion data
13. Reasons for non linearity in drug absorption
14. Explain various non renal routes of drug excretion
15. Construction and design of any official dissolution apparatus
16. In vitro in vivo correlation
17. Protocol for single dose bio equivalence study
