

PHARMACEUTICS - V
(Biopharmaceutics and Pharmacokinetics)
(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Describe the various physicochemical factors affecting drug absorption
2. Explain the various physiological barriers to drug distribution
3. Explain the criteria, advantages and disadvantages of urinary excretion data in assessment of various pharmacokinetic parameters.

Short notes

(14x5=70)

4. Michaelis-Menten equation and any two methods for assessment of Michaelis-Menten constant
5. Determination of AUC and its significance
6. Describe any official dissolution apparatus
7. Invitro-invivo correlation
8. Carrier mediated drug transport
9. Significance of perfusion rate in drug distribution
10. Significance of protein binding of drugs
11. Glutathione conjugation
12. Design of single dose bioequivalence study
13. Hepatic clearance
14. Various mammillary compartment models
15. Flip flop phenomenon
16. Endocytosis
17. Disintegration testing.
