Third Year B.Pharm Degree Supplementary Examinations June 2017

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

Time: 3 Hours   **Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay   **(3x10=30)**

1. Explain the factors affecting drug distribution

2. Discuss about phase – I biotransformation reactions

3. Describe one compartment open model for IV bolus administration of drugs

Short notes   **(14x5=70)**

4. Biopharmaceutical classification system of drugs

5. In vitro In vivo correlation

6. Michaelis – Menten equation and its importance

7. Passive diffusion and active transport

8. Define: Vd, Cmax, Tmax, AUC

9. Mechanism of renal clearance

10. Any ONE method of measurement of bioavailability

11. Design of single dose bioequivalence study

12. Biliary excretion of drugs

13. Importance of dissolution and disintegration tests

14. Significance of plasma drug concentration vs. time curve

15. Any two factors affecting the drug absorption.

16. Flip flop phenomenon

17. Importance of protein binding of drugs

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