

Third Year B.Pharm Degree Supplementary Examinations July 2018

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

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

- Answer all Questions.
- Write equations wherever necessary.

Essays**(3x10=30)**

1. Explain pharmaceutical factors affecting drug absorption
2. Describe one compartment model for IV infusion of drugs
3. Discuss about criteria, advantages and disadvantages of urinary excretion data

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

4. Significance of plasma drug concentration – time curve
5. Biopharmaceutical classification system of drugs
6. Any two factors affecting drug distribution
7. Differences between active transport and passive diffusion of drugs
8. Any two phase I biotransformation reactions
9. Dosage adjustment in the patients with renal failure
10. Define – C_{max} , T_{max} , V_d , $t_{1/2}$
11. Michaelis-Menten equation and its importance
12. Explain dissolution testing apparatus
13. Design of single dose bioequivalence study
14. In vitro – In vivo correlation
15. Importance of perfusion rate in drug distribution
16. Hepatic clearance
17. Endocytosis
