

2. State the characteristics of active transport process. (5)
3. Explain in detail about the distribution of drugs to foetus through placental barrier. (5)
4. Compare linear and non-linear pharmacokinetics. (5)
5. Briefly describe about carrier mediated transport for drug absorption. (5)
6. With a neat sketch, describe about endocytosis process of drug absorption. (5)
7. Explain in detail about the physiological model of pharmacokinetic compartment modeling. (5)

OR

Explain about the steady state level for one compartment open model. (5)

8. Explain in detail about any two methods of bioavailability enhancement. (5)

OR

Explain how bioavailability is measured using urinary data. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Describe Michaelis-Menten kinetics and give mathematical justification for estimating V_m and K_{max} from it. (10)

10. Discuss the factors which affect the protein-drug binding in gastrointestinal environment. (10)

OR

Elaborate on the non-renal routes of drug administration and its significance. (10)

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