



[Time: 3 Hours]

[Max. Marks: 75]

Biopharmaceutics and Pharmacokinetics

Q.P. CODE: 5167

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. Describe phase II reactions with suitable examples.
2. Explain factors affecting excretion.
3. Describe the method of TDM for digoxin.
4. Explain factors affecting drug distribution.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Explain the applications of biopharmaceutics and pharmacokinetics.
6. Explain concept of drug clearance and give its significance.
7. Dosage regimen (dose adjustment) in renal and hepatic failure
8. Explain the significance of protein binding.
9. Explain Blood Brain Barrier.
10. General note on TDM
11. Give MRT for various compartment models
12. Explain the non renal excretion.
13. Explain factors affecting excretion.
14. Compare and contrast the non compartment model and physiological pharmacokinetic

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