Time: Three Hours Max. Marks: 100 Marks

Bio-Pharmaceutics and Pharmacokinetics (Revised Scheme 4) Q.P. CODE: 9338

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

LONG ESSAY (Answer any TEN)

10 X 10 = 100 Marks

- 1. Enumerate the different methods of determining absorption. Discuss in detail in-vitro methods.
- 2. Discuss in detail physico-chemical factors affecting the absorption of drugs.
- 3. Explain volume of distribution. How volume of distribution is estimated? Give its significance.
- 4. Define the terms relative and absolute and bioavailability. Explain different methods used to determine AUC.
- 5. Explain the pharmacokinetics of a drug given by extravascular route which follows one compartment open model.
- 6. How do you determine elimination rate constant using urinary excretion data?
- 7. Explain the process of renal excretion of drugs.
- 8. Discuss the causes of non-linearity in pharmacokinetics and write briefly the tests to determine the same.
- 9. Define drug dissolution and explain various theories of drug dissolution.
- 10. What are the main factors that influence drug dosing in renal disease? Explain briefly the different methods for adjusting drug dose in renal disease.
- 11. Write a note on therapeutic drug monitoring.
- 12. Explain about Biopharmaceutics classification system.

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