



[Time: 3 Hours]

[Max. Marks: 75]

Clinical Pharmacokinetics and Therapeutic Drug Monitoring

Q.P. CODE: 5183

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. Explain the principle and methods of converting IV to oral drug dosing.
2. Discuss Bayesian theory.
3. Explain the methods of dosage adjustment in renal failure patients.
4. Discuss the need and protocol of TDM for cardio vascular drugs.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Explain the factors affecting individualization of drug dosage regimen.
6. Discuss the principle of multiple dosing of drugs.
7. What is non-compartment modeling? Explain.
8. What are nomograms? Explain their applications.
9. Explain NONMEM approach in analysis of population of Pharmacokinetics data.
10. Discuss the effect of drug dose on pharmacological effect and duration of activity of drugs.
11. Explain with suitable examples how drug interactions influence drug absorption and distribution.
12. Define Pharmacogenetics and explain its impact on pharmacokinetics of drugs.
13. Explain START and STOP criteria.
14. Explain the models of hepatic clearance.

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