

NG ESSAYk(Answeriany Three) www.FirstRanker.com

3 X 10 = 30 Marks

- www.FirstRanker.com Explain one compartmental open model with extra vascular route of administration along with various pharmacokinetic parameters.
- 2. Explain the various mechanisms of drug absorption.
- 3. Describe the in vitro drug dissolution testing models. Explain their merits and limitations.
- 4. Explain the causes of non linearity in pharmacokinetics of drugs. Add a note on estimation of Vmax and Km.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- 5. Explain pH partition hypothesis and its limitations.
- 6. Explain the protocol for bioequivalence studies.
- 7. Discuss Pharmacokinetic drug interactions.
- 8. Write the objectives of bioavailability studies. Enlist the methods for measurement of bioavailability. Explain method using plasma concentration data.
- 9. Define and classify compartment models. Discuss briefly the significance and limitation of compartment modeling.
- Write the applications of Pharmacokinetic in novel drug delivery systems. 10.
- 11. Explain the influence of gastric emptying and intestinal transit time on absorption of drugs.
- 12. Explain in -vivo methods for determining absorption of drugs.
- 13. Discuss Pharmacokinetics and Pharmacodynamics of biotechnology drugs.
- 14. Explain biological as factors affecting drug absorption.

