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

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Deduce equations to obtain pharmacokinetic parameters of a drug administered by oral route, the drug undergoing absorption by first order kinetics and body acting as a single compartment
- Explain Michaelis-Menten equation and estimation of Km and Vmax 2.
- 3. Explain in detail the application of pharmacokinetics in new drug development and designing of dosage forms

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Biological factors affecting absorption of drugs
- 5. Write a note on therapeutic drug monitoring
- 6. Explain with examples conjugation reactions for elimination of drugs
- 7. Write on adjustment of dosage in renal and hepatic impairment
- Write on objectives and considerations in bioavailability study 8.
- 9. Explain significance and kinetics of protein binding

www.FirstRanker.com SHORT NOTES 2 X 5 = 10 Marks

- Concept of loading and maintenance dose 10.
- Volume of distribution 11.

