



BIOPHARMACEUTICS AND PHARMACOKINETICS

(RS 2 & RS 3)

Q.P. CODE : 9283

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. Classify and explain dosage form related factors affecting drug absorption.
2. Write a note on Phase I reactions of biotransformation.
3. 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.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. What are the causes of non-linearity?
5. What are in-vitro and in-vivo methods of determining absorption?
6. Write a note on measurement of bioavailability.
7. Explain factors affecting excretion of drugs.
8. Explain the basic concept of Therapeutic Drug Monitoring.
9. Explain p^H partition hypothesis.

SHORT NOTES

2 X 5 = 10 Marks

10. Discuss induction of drug metabolizing enzymes.
11. How are ionic/ionizable drugs absorbed?

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