



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. Explain how bioavailability can be determined from oral administration of solid dosage forms.
2. Discuss the application of pharmacokinetics in dosage form design.
3. Discuss the various in-vitro dissolution testing methods used in pharmaceutical product evaluation.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Illustrate the procedure for adjusting the dosage regimen of patients with renal impairment.
5. Give the schematic representations of various pharmacokinetic models.
6. Explain Michaelis-Menten equation.
7. Discuss the various drug excretion pathways.
8. Explain the various factors that influence drug metabolism.
9. Discuss the kinetics of drug-protein binding.

SHORT NOTES

2 X 5 = 10 Marks

10. Mention the importance of bioequivalence studies.
11. Mention the significance of drug protein binding in drug therapy.

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