

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester M. Pharm Degree Examination - 06-Nov-2024

[Time: 3 Hours]

[Max. Marks: 75]

ADVANCED BIOPHARMACEUTICS AND PHARMACOKINETICS
Q.P. CODE: 5170

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

Answer All The Questions

10 X 7.5 = 75 Marks

1. Enumerate various mechanisms of drug absorption.
2. Elaborate effect of dosage forms on gastro intestinal drug absorption with suitable examples.
3. Describe various considerations in the design of a drug product.
4. Describe cytochrome P450 based drug interactions by giving suitable examples.
5. Explain pH-partition hypothesis of drug absorption. What are its limitations?
6. Define and interpret biopharmaceutical classification system (BCS) of drugs with suitable examples.
7. Define dissolution. Describe compendia methods of dissolution testing.
8. Explain purpose of bioavailability and bioequivalence studies. Define relative and absolute bioavailability.
9. Describe pharmacokinetics and pharmacodynamics of proteins and peptides.
10. Describe Michaelis-menton equation. How do you estimate K_m and V_{max}

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