

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester M. Pharm Degree Examination - 30-May-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. Discuss in detail the various biological factors affecting drug absorption.
2. Explain the different methods to study the bioavailability of a drug.
3. Classify the Pharmacokinetic models, give their salient features, advantages and disadvantages.
4. Discuss in detail two-compartment open model for a drug administered as IV Bolus.
5. Explain the pH partition theory of drug absorption with examples.
6. Explain the Noyes-Whitney's equation for drug dissolution. Describe any two factors influencing drug dissolution.
7. Explain the biopharmaceutics classification system with examples.
8. Discuss the factors affecting drug bioavailability.
9. Write about CYP450 based drug-interactions.
10. What do you understand by relative and absolute bioavailability? Explain BIBD design what are its advantages.

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