

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester M. Pharm Degree Examination - 16-Nov-2021

[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. Explain the Pharmacokinetics of a drug given by extra vascular route, which follows one compartment open model.
2. Write the purpose of bioavailability studies. Write notes on biosimilar products and generic substitution.
3. Explain various physiological factors affecting the drug absorption.
4. Enumerate drug interactions related to transporters.
5. Explain applications of Pharmacokinetics in targeted drug delivery systems.
6. Describe various *in-situ* methods of studying drug absorption.
7. What are the causes of nonlinearity of Pharmacokinetics? How do you estimate K_m and V_{max} .
8. Discuss the various compendia methods of drug dissolution.
9. Discuss cross over study designs in bioequivalence.
10. Explain two compartment models.

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