

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester M. Pharm Degree Examination - 21-Jul-2022

[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 extravascular administration, follows one compartment open model.
2. Discuss statistical moment theory. Explain the method to calculate AUMC and MRT.
3. What are modified release drug products? Explain their pharmacokinetics.
4. Discuss biopharmaceutical classification system with suitable examples.
5. Explain generic substitution and biosimilar drug products.
6. Explain effect of protein drug interaction and tissue binding drug interactions.
7. Discuss advantages and Limitations of Physiologic Models verses compartment models.
8. Explain *in-vitro* drug dissolution testing Models.
9. Explain pH partition hypothesis, with suitable examples. What are its limitations?
10. Discuss protocol of Bioequivalence studies.

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