

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester M. Pharm Degree Examination - 18-Nov-2022

Time: Three Hours

Max. Marks: 75 Marks

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 any three physicochemical factors affecting the absorption of drugs.
2. Discuss the one compartmental model after the administration of an IV bolus.
3. Define drug dissolution and explain various theories of drug dissolution.
4. Discuss drug interactions linked to transporters.
5. Discuss in detail various bioequivalence study designs.
6. Compare and contrast between active and passive transport of drugs. Write a note on Ion-pair absorption.
7. Explain the application of pharmacokinetics in drug development and designing of dosage forms.
8. Explain Michaelis - Menten equation in determining non-linearity. How do you estimate V_{max} and K_m .
9. Discuss in detail In-vitro methods of determine drug absorption.
10. Describe briefly non-compartment model with it advantages.

* * * * *