

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination - Nov 2011

[Time: 3 Hours]

[Max. Marks: 100]

BIOPHARMACEUTICS AND PHARMACOKINETICS**(RS 2 & RS 3)****Q.P. CODE: 9283**

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

LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. What is biotransformation and list out the factors affecting biotransformation? Give the classical examples for the phase I and phase II reactions
2. Explain the factors influencing GI absorption of a drug from its dosage forms
3. Discuss the one compartment pharmacokinetic model and write the application of pharmacokinetic in the design and development of new dosage forms

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Explain active transport with illustration
5. Discuss briefly bioequivalence studies
6. Explain briefly Michaelis-Menten equation
7. Hepatic clearance – explain
8. Explain loading dose and maintenance dose
9. List out the factors affecting protein binding

SHORT NOTES**2 X 5 = 10 Marks**

10. Binding of drugs to lipoproteins
11. Physiologic barriers to distribution of drugs

* * * * *