

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination - May 2012

[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. State the factors affecting drug distribution and their correctional measures
2. Write briefly on the concept of clearance and discuss hepatic clearance
3. Discuss the application of pharmacokinetics in new drug development

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Explain Michaelis – Menten equation
5. Write briefly on in – Vivo – in – vitro correlation
6. Write briefly on Therapeutic drug monitoring
7. Discuss on the biological factors that affect drug absorption
8. Write on protein binding and its implications
9. Discuss the Pharmacokinetic study with one compartment open model for I.V infusion

SHORT NOTES

2 X 5 = 10 Marks

10. Bioavailability
11. C_{max} and T_{max}

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