

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination - May 2013

[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 are the factors which will affect the absorption of drugs? Explain Physiological factors
2. Give the illustrative explanation of renal and non – renal excretion
3. Explain michaelis - menten equation and estimation of Km and Vmax

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

4. Explain the absorption of drugs through passive diffusion
5. Discuss briefly about bioequivalence studies
6. Explain in – vitro – in – vivo correlation studies
7. Enlist the assumptions of multi compartment model. Explain the two compartment open model for IV bolus
8. Discuss the factors affecting the drug distribution
9. Write the importance of therapeutic drug monitoring

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

10. Loading dose
11. Biotransformation

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