Rajiv Gandhi University of Health Sciences

First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours]

[Max. Marks: 100]

BIOPHARMACEUTICS AND PHARMACOKINETICS

(Revised Scheme 2)

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. Explain the mechanisms of drug absorption

2. How will you measure the biovavilability of drugs? Explain and give the importance of bioequivalence

3. Discuss one compartment and two compartment pharmacokinetic models and write the applications of pharmacokinetic in novel drug delivery systems

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

4. Discuss Noyes – Whitney's dissolution rate of law

5. Explain the michaelis – menten equation

6. What are the factors which will affect the protein binding? Explain

7. Elucidate the conjugation reactions

8. Define Clearance and give the illustrative explanation of renal Clarence

9. Explain the therapeutic drug monitoring

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

10. Volume of distribution

11. Hepatic clearance

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