First Year M.Pharm Degree Examination - Oct/Nov 2014

[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.

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

1. Explain various mechanisms of drug absorption with suitable examples.

2. Write about the methods of assessing bioavailability.

3. Explain the concept of compartments in pharmacokinetics. Derive equations for elimination rate constant and biological half-life.

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

4. Write a note on non-linear pharmacokinetics.

5. Explain concept of bioequivalence.

6. Write about in-vitro in-vivo correlation.

7. Factors affecting protein binding

8. Adjustment of dose in renal impairment

9. Conjugation reactions in biotransformation

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

10. Noyes-Whitney equation

11. Non-renal excretion of drugs

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