[Max. Marks: 100]

Biopharmaceutics and Pharmacokinetics

(Revised Scheme 4)

Q.P. CODE: 9338

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

LONG ESSAY (Answer any TWO)

- 1. Explain various methods to improve bioavailability of poorly water-soluble drugs.
- 2. Explain in detail non-per oral routes drug absorption.
- 3. What are the assumptions of two compartmental model? Explain two compartmental open model with i.v bolus drug administration. Derive various pharmacokinetic parameters of the same.

SHORT ESSAY (Answer any FIVE)

- 4. Write about physiological Pharmacokinetic model. Comment on statistical moment theory.
- 5. Explain one compartment open model with extravascular drug administration along with various pharmacokinetic parameters.
- 6. Explain in detail about bio equivalence study.
- 7. Write a note on Phase II Biotransformation reactions.
- 8. Describe Noyes-Whitney's equation. Comment on similarity and dissimilarity factors.
- 9. Dose adjustment in renal and hepatic impairment

SHORT NOTES

- 10. Kinetics of protein binding
- www.firstRatt*** 11. Non renal excretion of drugs

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5 X 10 = 50 Marks

2 X 5 = 10 Marks

 $2 \times 20 = 40$ Marks

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[Time: 3 Hours]