## **2010 Scheme**

QP CODE: 304006 Reg. No: .....

## Third Year B.Pharm Degree Supplementary Examinations December 2022

## Pharmaceutics - V (Biopharmaceutics and Pharmacokinetics)

Time: 3 Hours Total Marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
   Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays (3x10=30)

- 1. Explain mechanisms of drug absorption
- 2. Explain the various factors affecting the drug distribution
- 3. Derive all parameters of plasma when the drug is given as i.v.bolus following a onecompartment open model

Short notes (14x5=70)

- 4. Clearance ratio and extraction ratio
- 5. Zero-order absorption rate constant
- 6. Dissolution testing
- 7. Explain biotransformation
- 8. Two compartments open model drug administered by i.v. bolus
- Extravascular administration
- 10. Nonlinear pharmacokinetics
- 11. Michaelis Menten's equation
- 12. Bioavailability measurements
- 13. Bioequivalence study
- 14. Protein binding
- 15. Concept of clearance
- 16. Compartment models
- 17. Biliary clearance

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## **CORRECTION / NO-CORRECTION FILE**

QPCODE: 304006 Dated: 20-12-2022

There are no corrections in today's question paper.

This matter to be announced by the Chief Supdt./Invigilator and get the signature of two students - one from the front row and one from the back row, as a proof of this announcement.

(Sd/-)

**CONTROLLER OF EXAMINATIONS**