2010 Scheme

QP CODE: 304006 Reg. No:

Third Year B.Pharm Degree Supplementary Examinations May 2023

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 pharmaceutical factors affecting drug absorption
- 2. Explain in detail the significance of protein binding
- 3. Derive all the pharmacokinetic parameters of plasma when the drug is given as i.v. bolus following a two compartment model

Short notes (14x5=70)

- 4. Elaborate on factors affecting renal excretion
- 5. Dosage adjustment following renal failure
- 6. Biological barriers affecting drug distribution
- 7. Biotransformation and its types
- 8. Biopharmaceutical classification system and its significance
- 9. Biliary excretion of drugs
- 10. First-order absorption rate constant
- 11. Measurement of A.U.C
- 12. Significance of plasma drug concentration
- 13. Volume of distribution
- 14. In-vitro and in-vivo correlation
- 15. Bioequivalence
- 16. Michaelis Menten's equation
- 17. Hepatic clearance

CORRECTION / NO-CORRECTION FILE

QPCODE: 304006 Dated: 22-05-2023

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