First Pharm D Post Baccalaureate Degree Regular/Supplementary Examinations August 2024

Paper VI – Biopharmaceutics & Pharmacokinetics

Time: 3 Hours

- 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:

- 1. Describe the mechanism of drug absorption.
- 2. Explain various pharmacokinetic parameters involved after I.V bolus administration of drug.
- 3. Define clearance, total body clearance and organ clearance. What are the advantages of expressing clearance at an individual organ level.

Short notes:

- 4. Loading Dose.
- 5. Compare the primary and secondary active transport.
- 6. Narrate the patient factors that affect the drug absorption.
- 7. What are the outstanding characteristics of conjugation reaction.
- 8. Explain the pharmacodynamic parameters .
- 9. Write the advantages and disadvantages of the physiological model.
- 10. Brief about Ka, Ke, Cmax, tmax and AUC.
- 11. Give the advantages and disadvantages of cross over bioequivalence studies.

(3x10=30)

(8x5=40)

Total Marks: 70