

Q.P. Code: 405326

Reg. no.:

Fourth Year Pharm D Degree Supplementary Examinations March 2022

Biopharmaceutics & Pharmacokinetics

Time: 3 Hours

Total Marks: 70

- *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. Discuss in detail about non-renal routes of elimination.
2. Explain plasma concentration-time profile with a neat diagram.
3. Explain cross-over design used in bioequivalence study and describe drug interactions resulting from altered protein binding

Short notes:

(8x5=40)

4. Describe facilitated diffusion and active transport in drug absorption.
5. Explain physiologic models of pharmacokinetics.
6. Explain the different factors effecting the protein binding.
7. Discuss enterohepatic cycling.
8. Define bio-equivalence and describe Latin square study design.
9. Explain the different factors effecting the process of excretion.
10. Explain on renal dosage adjustment.
11. Explain reasons for liquid oral solutions are absorbed faster than tablet formulations.
