

Q.P. Code: 405326

Reg. no.:

Fourth Year Pharm D Degree Supplementary Examinations, February 2016

Biopharmaceutics & Pharmacokinetics

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Describe in detail the factors affecting drug distribution
2. Explain two compartment model for IV bolus administration
3. Describe non-compartmental pharmacokinetics with their advantages and disadvantages

Short notes:

(8x5=40)

4. Passive diffusion
5. Compartmental models
6. Processes in renal elimination
7. Non-linear kinetics
8. Methods of calculation of area under the curve (AUC)
9. Study designs of bio-equivalence studies
10. Volume of distribution and factors affecting it
11. Physiological pharmacokinetic model
