Fourth Year Pharm D Degree Examinations, July 2017

Biopharmaceutics & Pharmacokinetics

Time: 3 Hours

- Answer all questions
- Draw diagrams wherever necessary

Essay:

(3x10=30)

Total Marks: 70

- 1. Define drug absorption. Discuss the various factors influencing GI absorption of a drug.
- 2. Explain the designing and protocol of bioequivalence studies as per CDSCO guidelines.
- 3. Derive Michaelis-Menten equation and explain about in vitro and in vivo correlation method.

Short notes:

- 4. Derive the pharmacokinetic parameters for one compartment open model intra venous administration
- 5. Explain briefly the physiological barriers for distribution.
- 6. Describe the phase II biotransformation of drugs.
- 7. Explain the concept of loading dose and maintenance dose.
- 8. Statistical moment theory.
- 9. Explain the pharmacokinetic method for assessing bioavailability
- 10. Explain various models of pharmacokinetic analysis.
- 11.Explain Wagner and Nelson method.

Reg. no.:

(8x5=40)