

Q.P. Code: 106340

Reg. no.:

First Pharm D Post Baccalaureate Degree Examinations, June 2016

Paper VI – 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 absorption
2. Explain one compartment open model for IV bolus administration
3. Explain factors causing non-linearity and describe Michaelis-Menten method for estimation for pharmacokinetic parameters in non-linear kinetics

Short notes:

(8x5=40)

4. Enterohepatic circulation
5. Applications of pharmacokinetic models
6. Two compartment open model
7. Non-compartmental pharmacokinetics
8. Plasma-concentration time profile
9. Methods of bioavailability assessment
10. Plasma protein binding
11. Dosage adjustment in renal failure
