

B. Pharm. Sixth Semester
35171 : Biopharmaceutics - II : 6.5

P. Pages : 1

Time : Three Hours



AU - 0686

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Illustrate your answer necessary with the help of neat sketches.
 - ~~4.~~ Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Describe Michaelis Menten equation. 6
- b) Describe any one method of determination of Absorption Rate Constant (K_a). 6
2. Explain one compartment open model for oral administration with relevant equations & parameters using blood data. 12
3. Discuss constant Rate Regimens and derive equations for plateau value and Time to reach plateau. 12
4. Enlist the reasons for variability in drug response. Discuss the effect of Age and Weight on drug response. 12
5. What are the various reasons for Nonlinearity in Pharmacokinetics? Describe in brief. 12
6. a) What are the determinants of Dosage Regimens? Describe in brief. 6
- b) Describe drug accumulation in multiple Dose Regimens. 6
7. Write notes on **any two**. 12
 - a) Clearance.
 - b) Half life of drugs.
 - c) Bioavailability.
