

[LM 823]

MAY 2018

Sub. Code: 3823

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)
DEGREE EXAMINATION
(2009-2010 Regulation)
FOURTH YEAR
PAPER V – BIOPHARMACEUTICS AND PHARMACOKINETICS**

*Q.P. Code: 383823***Time : Three hours****Maximum : 70 Marks****I. Elaborate on:****(4 x 10 = 40)**

1. Outline the physicochemical factors affecting drug absorption.
2. Explain the significance of protein/tissue binding of drugs.
3. Explain Non-linear Pharmacokinetics. Write in estimation of K_m and V_{max} .
4. How to determine pharmacokinetic parameters in one compartment open model intravenous infusion administration?

II. Write notes on:**(6 x 5 = 30)**

1. Differentiate active transport and passive diffusion.
2. Write the importance of volume of distribution.
3. Describe about salivary excretion.
4. Discuss method of determination and absorption rate constant (K_a).
5. Write the merits and demerits of non compartmental pharmacokinetics.
6. Mention the methodology involved in the determination of bioavailability.
