

[LK 823]

MAY 2017

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. Define drug absorption. Discuss the physiochemical factors influencing GI absorption of a drug.
2. Explain briefly two compartmental open model extra Vascular Administration.
3. Explain in details about pharmacokinetic and pharmacodynamic parameters.
4. What are the major parameters studied in the urinary excretion data?

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

1. Measurement of bioavailability.
2. Explain the mean residence time.
3. Volume of distribution.
4. Methods to enhance the bioavailability through enhancement of dissolution rate.
5. How can you graphically estimate  $K_m$  and  $V_{max}$  from steady state concentration?
6. Hepatic clearance and renal clearance.

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