

[LL 823]

OCTOBER 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. What are the dosage form related factors affecting drug absorption?
2. Explain the volume of distribution with its significance.
3. Describe the pharmacokinetics concept involved in repetitive injection in one component open model.
4. Enumerate in detail the bio-availability study protocol.

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

1. Add a note on statistical moment theory.
2. How to determine bio-availability through urinary extraction studies?
3. Write about compartment models.
4. Discuss the concept involved in clearance.
5. Differentiate Phase I and Phase II biotransformation reactions.
6. Describe the method of residuals in the determination of absorption rate constant in two compartment open model extra vascular administration.
