

[LG 823]

APRIL 2015

Sub. Code: 3823

DOCTOR OF PHARMACY (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****Answer All questions****I. Elaborate on:****(4 x 10 = 40)**

1. Pharmaceutical factors influencing G.I.T absorption.
2. Nonlinear kinetics – Causes and estimation of K_m and V_{max} .
3. Bioavailability enhancement through solubility / dissolution rate.
4. Pharmacokinetic analysis of mathematical data.

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

1. Plasma protein bindings.
2. Apparent Volume of distribution.
3. Factors affecting renal excretion.
4. Statistical Moment Theory.
5. Plateau principle.
6. Estimate the creatinine clearance of a 30 year old 70 kg man with serum creatinine level of 2 mg %. What is the renal function of this patient?
