

QP Code: 3272

Reg No:

**M Pharm Part I Degree Examinations-June 2012
(Pharmaceutics)**

Paper II - Biopharmaceutics and Pharmacokinetics

Time: 3 hrs

Maximum Marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

essays:

(2x20 =40)

- .. Give the criteria for obtaining valid urinary data for pharmacokinetic study and explain methods for estimation of elimination rate constant (K_e) from urine sample (assume one compartment disposition and I.V. bolus dose)
2. Discuss the mechanism of drug absorption with suitable examples

Short **Essays:**

(6x10=60)

3. Explain physiological modelling in detail
4. Describe Michaelis-Menten equation. How V_{max} and K_m are calculated
5. How do you conduct bioequivalence studies. Explain the significance of it.
6. Define Clearance. Explain renal and hepatic clearance.
7. Discuss various biopharmaceutics factors affecting drug absorption from an injectable.
8. Explain • Apparent volume of distribution • Monoexponential disposition
