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Roll No

PY-702

B.Pharmacy VII Semester

Examination, December 2016

Pharmaceutics - IX

(Biopharmaceutics & Pharmacokinetics)

Time : Three Hours

Maximum Marks : 70

- Note:* i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) How can GI absorption be studied from in vivo methods?
b) Explain the selection criteria for compartmental models.
2. a) How are dosage regimen adjusted in patients with and without renal failure?
b) Discuss the factors affecting drug metabolism.
3. a) How is bioavailability determined from blood level data?
b) Describe the Federal requirements relating to bioavailability and bioequivalence.
4. a) What is the pharmacokinetic significance of plasma drug concentration?
b) Define Vd. How is it determined?
5. a) Discuss the pharmaceutical factors influencing biopharmaceutical performance of drugs.
b) Explain the role of biopharmaceutics and pharmacokinetics in drug formulation.

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6. How do the following differ ?
 - a) Biopharmaceutics and pharmacokinetics
 - b) Loo-Riegelman and Wagner Nelson methods
 - c) Plasma protein and tissue protein binding
7. Write notes on any three of the following :
 - a) Salivary excretion of drugs
 - b) pH partition hypothesis
 - c) Stimulation of drug metabolism
 - d) Factors affecting drug response
