

PY - 702

B.Pharmacy VII Semester

Examination, December 2013

Pharmaceutics - IX

(Biopharmaceutics & Pharmacokinetics)

Time : Three Hours

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Maximum Marks : 70

Note: 1. Attempt any five questions.

2. All questions carry equal marks.

1. a) Explain the mechanism of drug absorption through gastrointestinal tract. 7
b) Discuss the physiological factors affecting the drug absorption. 7
2. a) Discuss in vivo methods for determination of drug absorption through GIT. 7
b) How plasma protein binding effect the absorption and bioavailability of drugs. 7
3. a) Discuss renal drug excretion in brief. 7
b) Describe the various pathways of drug metabolism. 7
4. a) Differentiate between one compartment and multi compartment model. Describe flip-flop model in one compartment model. 8
b) Write note on determination of apparent volume of

5. Discuss in detail wagner-nelson and Loo Kiegelman method for determination of K_a for a drug administered extravascular following two compartment open model. Assume first order absorption and distribution process. 14

6. a) Define dosage regimen. Write methods for determination of dosage regimen. 8
b) Discuss briefly about Hepatic clearance. 6
7. a) Differentiate and define bioavailability and bioequivalence. 6
b) Discuss the methods of determination of bioavailability using blood level data. 8
8. Write short note on any three: 14
 - i) AVC
 - ii) Sigma minus method
 - iii) Saliva drug excretion
 - iv) pH partition hypothesis

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