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Roll No

PY-702 (GS)**B.Pharmacy VII Semester**

Examination, December 2017

Grading System (GS)**Pharmaceutics - IX****(Biopharmaceutics & Pharmacokinetics)****Time : Three Hours****Maximum Marks : 70**

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

1. a) Design a Bioavailability protocol for tablets.
 b) Discuss the methods of Determination of Bioavailability.
2. a) Explain the role of plasma drug concentration monitoring in optimization of drug therapy.
 b) Discuss the physicochemical factors Affecting Drug Absorption.
3. a) Explain the mechanisms of gastrointestinal absorptions.
 b) Give detailed account on pH partition Hypothesis.
4. a) Describe Wagner-Nelson method for estimation of Absorption rate constant.
 b) What is steady state concentration? What is its importance in pharmacokinetics?

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5. Describe the pharmacokinetic parameters for one Compartment Model Administered by I.V. Bolus Administration.
6. a) Describe in detail mechanism of Renal Excretion of Drug.
 b) Discuss in detail factors affecting Drug Metabolism.
7. Define Bioavailability and Bioequivalence. Explain in detail Federal Requirements for Bioavailability studies.
8. Give Short Notes on (Any three):
 a) Loading and Maintenance Dose
 b) Factors Affecting Plasma Drug concentration
 c) Volume of Distribution
 d) Plasma Protein Binding

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