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B PHARM (SEM VI) THEORY EXAMINATION 2022-23 **BIOPHARMACEUTICS AND PHARMACOKINETICS**

Time: 3 Hours

Note: Attempt all Sections.

SECTION A

- 1. Attempt all questions in brief.
 - a. Write the name the various barriers for drug distribution.
 - b. Define apparent volume of distribution and protein binding of drug.
 - c. Define renal clearance. Give the name of non-renal routes of drug excretion of drugs.
 - d. Define bio-availability and bio-equivalence.
 - Write the difference between absolute with relative bioavailability. e.
 - f. Give the advantages of physiological models.
 - Define total clearance. g.
 - What is the significance of maintaining steady state drug levels in pharmacokinetics? h.
 - Define non-linearity. i.
 - j. Give Michaelis-Menten equation. https://pharmacyindia.co.in/ **SECTION B**

2. Attempt any two parts of the following:

- Enlist various factors influencing GI absorption of a drug from its dosage form and explain a. physicochemical factors affecting drug absorption in detail.
- Discuss in detail two-compartment open model for a drug administered as IV Bolus. Give b. the schematic representation, graphs and equations for the same.
- c. What is the difference between linear and non-linear pharmacokinetic? List out the reasons for non-linearity in pharmacokinetic studies.

SECTION C

3. Attempt any *five* parts of the following:

- Discuss in detail the various pharmaceutical factors affecting drug absorption. a.
- b. Explain the following terms- Clearance, Total body clearance, Hepatic clearance and Renal clearance.
- Describe the method to calculate absorption rate constant for one compartment open model c. extra vascular first order kinetics.
- d. What is the reason behind initial rapid decline and terminal slow decline of the conc. of drug in the central compartment? Discuss the reason.
- How will you affect dosage adjustment in renal failure? e.
- f. Describe the various methods aimed at enhancing bioavailability of drug from its dosage form.
- Describe the kinetics of capacity-limited or saturable processes of non-linearity. g.

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 $7 \ge 5 = 35$

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2 x 10

 $10 \ge 2 = 20$

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Paper Id: 231887

Total Marks: 75