

	Roll No.		Total No. of Pages: 02
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Total No. of Questions: 10

B.Pharma (2012 to 2016) (Sem.-5) PHARMACEUTICS-VII

(Biopharmaceutics & Pharmacokinetics)

Subject Code: BPHM-505 M.Code: 70431

Time: 3 Hrs. Max. Marks: 80

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

1. Answer briefly:

- a. Significance of plasma drug concentration time curve.
- b. What is a compartment model?
- c. Enlist factors affecting gastric emptying of drug.
- d. Enlist any two possible mechanisms of enzyme induction and enzyme inhibition.
- e. Significance of bioavailability studies.
- f. Give significance of tissue binding of drug.
- g. Flip-flop phenomenon.
- h. What is non linear pharmacokinetics?
- i. Hepatic clearance.
- j. Active transport systems.

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- k. Define Volume of distribution.
- l. What are the various sites of drug metabolism in the body?
- m. Define Passive diffusion.
- n. What do understand by mean residence time?
- o. Write about characteristics of active transport?

SECTION-B

- 2. Write a note on applications and limitations of compartment models.
- 3. Write a short note on urinary excretion studies.
- 4. Explain Zero order and first order absorption models.
- 5. Explain Apparent volume of distribution and distribution co-efficient.
- 6. Write a note on clearance. What is its unit?

SECTION-C

- 7. Write short notes on:
 - a. Significance of plasma drug concentration measurement.
 - b. Lag time
- 8. Discuss the assumptions, limitations and significance of pH- partition hypothesis.
- 9. Describe various pharmacokinetic parameters and study designs used in BA/BE studies.
- 10. Explain about Wagner-Nelson method and Loo-Reigelman method.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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