www.FirstRanker.com

www.FirstRanker.com

Code: 13R00702

B.Pharm IV Year I Semester (R13) Regular Examinations November 2016

BIOPHARMACEUTICS & PHARMACOKINETICS

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Mention the physiological barriers of drug diffusion.
 - (b) What is apparent volume of distribution?
 - (c) Write about non renal clearance.
 - (d) Mention the phase II reactions of drug metabolism.
 - (e) Write the methods to measure bioavailability.
 - (f) Explain IVIVC.
 - (g) What is MRT?
 - (h) Define biological half life.
 - (i) Write reasons for non-linearity.
 - (j) Explain Michaelis-Menten equation.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT - I

2 Mention the physico-chemical factors influencing absorption with examples.

OR

What is protein binding and explain factors affecting protein binding and significance of protein binding?

UNIT - IL

4 Explain phase I pathways of drug metabolism with examples.

OR

5 Write about renal excretion of drugs.

(UNIT - III)

6 Explain types and measurement of bioavailability studies.

OR

7 Explain the designing and protocol of bioequivalence studies as per CDSCO guidelines.

(UNIT - IV

8 Explain one compartment open model for IV bolus administration.

OR

9 Explain sigma minus method used to determine the excretion of drug.

[UNIT - V]

10 Explain the concept of linearity and non-linearity.

)R

11 Comment on non compartmental models.
