REV-01 BPH/02/05 2023/08

B. PHARM. SIXTH SEMESTER BIOPHARMACEUTICS & PHARMACOKINETICS BP604T | SPECIAL REPEAT|

SET

Full Marks: 75

[USE OMR SHEET FOR OBJECTIVE PART]
Duration: 3 hrs.

(PART-A: Objective)

Time: 30 min. Marks: 20
Choose the correct answer from the following: $1 \times 20 = 20$

1.	In multi compartment model, elimination follows?						
	a.	First order kinetics	b.	Mixed order kinetics			
	c.	Zero order kinetics	d.	None of the above			
	c.	Zero order kinetics	d.	None of the above			

- 2. Cl_r=___?
 a. Ke.Vc
 b. Ke.X
 c. 0.693/k
 d. 0.691/k
- 3. Which of the following drug is extensively reabsorbed in tubular reabsorption phase?
 - a. Lipid soluble drugs
 b. Water soluble drugs
 c. Polar drugs
 d. Hydrophilic drugs
- 4. Rate determination step for lipophilic drug is
 - a. Disintergrationb. Dissolutionc. Permeationd. Gastric emptying time
- 5. Drugs for easy penetration, need partition coefficient?
 - a. Highb. Moderatec. Lowd. Negligible
- 6. Which is the highest level of IVIVC?
 - a. Level A b. Level B
 - c. Level C d. Multiple level C
- 7. Priming dose is also known as _____?
 - a. Loading doseb. Dose sizec. Dose frequencyd. Dose interval
- 8. Which route of drug administration shows 100% bioavailability?
- a. Oral
 c. Rectal
 d. Topical
- Maximum plasma concentration obtained after extravascular administration is known as
 - a. Cmax
 b. Tmax
 c. DXU/dt
 d. AUC

	X/C=?		
		 Cl_T None of the above 	
	71/2=?	. Hone of the neove	
		o. 0.951/k	
c.	c. 0.693/k	I. 0.691/k	
	Vagner-nelson method is used for the estimati		
		o. K _e I. Clearance	
	n multi compartment model, the sharp decline		al
co	ompartment due to?		
		Metabolism None of the above	
	n multi compartment model , elimination take		partmer
a	a. Peripheral	o. Central	7
c.	c. Both (a) and (b)	d. None of the above	
	Distributive phase takes place in comp		
	•	d. None of the above	
	Non linear Pharmacokinetics is also called as _		
a	a. First order kinetics	b. Mixed order kinetics	
c	c. Zero order kinetics	d. None of the above	
	Which of these is not a pharmacodynamic para		
		b. Onset of timed. Loading dose	
	Non compartment analysis is also called as		
a	 Model independent 	b. Model dependent	
		d. Catenary model	
	Frequency of administration of drug in a parti a. Dose number	icular dose is b. Dose interaction	
		d. Dose regimen	
	The process of movement of drug from its site circulation is?	of administration to the sy	stemic
	•	b. Distribution	
C	c. Metabolism	d. Elimination	
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PART-B: Descriptive

Marks: 35 Time: 2 hrs. 30 min. [Answer any seven (7) questions] 5 Draw curves for two compartment open model(plot between log C vs time) and mention the equation for rate of change of drug concentration in central compartment 5 2. Discuss the causes of non linearity 5 Write factors influencing GI absorption of a drug. 5 4. Discuss latin square design for cross over bioequivalence studies Discuss types of compartment model with diagram and write three 5 applications. 5 6. Discuss assumptions of two compartment open model with diagram. 5 7. Discuss acceptance criteria for dissolution testing of different dosage forms. 5 Discuss absorption of drugs from Non-per OS extravascular routes(mention only 5 route)

Discuss five methods for enhancement drug solubility

5

PART-C: Long type questions

[Answer any two (2) questions]

Discuss one compartment open model i.v. infusion.	10
Discuss Michaelis Menten menthod for estimating parameters.	10
Give the expression of Noyes-Whitney equation and discuss factors affecting drug dissolution.	10