REV-01 BPH/05/10

Duration: 3 hrs.

2023/06

SET

Full Marks: 75

B. PHARM. SIXTH SEMESTER **BIOPHARMACEUTICS & PHARMACOKINETICS** BP604T [REPEAT] JUSE OMR SHEET FOR OBJECTIVE PART]

	· (<u>PART-A: Ol</u>	Objective)	
Tim	e : 30 min.	Mark	ks: 20
Cho	ose the correct answer from the follow	wing: 1×2	0=20
1.	When transport system require ATP, it is ca a. Active c. Paracellular	b. Passive d. None of the above	
2.	Pinocytosis transport comes under which or a. Active c. Vesicular	one? b. Paracellular d. Facilitated or mediated diffusion	
3.	Which of the following drug is extensively a. Lipid soluble drugsc. Polar drugs	reabsorbed in tubular reabsorption pl b. Water soluble drugs d. Hydrophilic drugs	iase?
4.	Rate determination step for lipophilic drug a. Disintergration c. Permeation	g is b. Dissolution d. Gastric emptying time	
5.	Drugs for easy penetration, need partition of a. High c. Low	n coefficient ? b. Moderate d. Negligible	
6.	Which is the highest level of IVIVC? a. Level A c. Level C	b. Level Bd. Multiple level C	
7.	In open compartment IV bolus method, clea. First order kineticsc. Zero order kinetics	learance follows ? b. Second order kinetics d. None of the above	
8.	Which route of drug administration shows a. Oral c. Rectal	s 100% bioavailability? b. Intravenus d. Topical	
9.	Maximum plasma concentration obtained a known as - a. Cmax c. DXU/dt	d after extravascular administration isb. Tmaxd. AUC	

10.	X/C=? a. Vd
11.	T _{1/2} =? a. 0.965/k b. 0.951/k c. 0.693/k d. 0.691/k
12.	Wagner-nelson method is used for the estimation of ? a. K_a b. K_e c. V_d d. Clearance
13.	In multi compartment model, the sharp decline of concentration on central compartment due to? a. Distribution b. Metabolism c. Elimination d. None of the above
14.	In multi compartment model, elimination takes place fromcompartment. a. Peripheral b. Central c. Both (a) and (b) d. None of the above
15.	Distributive phase takes place in compartment. a. Peripheral b. Central c. Both (a) and (b) d. None of the above
16.	Non linear Pharmacokinetics is also called as? a. First order kinetics b. Mixed order kinetics c. Zero order kinetics d. None of the above
17.	Which of these is not a pharmacodynamic parameters? a. Onset of action b. Onset of time c. Therapeutics range d. Loading dose
18.	Non compartment analysis is also called as a. Model independent c. Mamillary model b. Model dependent d. Catenary model
19.	Frequency of administration of drug in a particular dose is a. Dose number b. Dose interaction c. Dose ratio d. Dose regimen
20.	Ratio of maximum safe concentration to minimum effective concentration of drug is a. Therapeutic monitoring b. Therapeutic index c. Therapeutic equivalence d. Therapeutic window
	11. 12. 13. 14. 15. 16.

[2]

USTM/COE/R-01

	PART-B: Descriptive	
Tim		s: 35
	[Answer any seven (7) questions]	
1.	Discuss assumptions of one compartment open model.	5
2.	Discuss the causes of non linearity	5
3.	Write factors influencing GI absorption of a drug.	5
4.	Discuss latin square design for cross over bioequivalence studies	5
5.	Discuss types of compartment model with diagram and write three 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
8.	Discuss absorption of drugs from Non-per OS extravascular routes(mention only 5 route)	5
9.	Discuss five methods for enhancement drug solubility	5
	[Answer any two (2) questions]	
1.	Discuss one compartment open model i.v. bolus.	10
2.	Discuss Michaelis Menten menthod for estimating parameters.	10
3.	Discuss method of residual for two compartment open model.	10