Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - - Biopharmaceutics and Pharmacokinetics Course Code - BP604T

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Mark only one oval.
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Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
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9.

	<u>DIP.ME</u>
	PGDHM
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	M.SC.(BT)
	M.TECH(CSE)
	LLM
	M.A.(JMC)
	M.A.(ENG)
	M.SC.(MATH)
	M.SC.(MB)
	M.SC.(MSJ)
	M.SC.(AM)
	M.SC.CS)
	M.SC.(ANCS)
	M.SC.(MM)
	B.A.(Eng)
۱	nswer all the questions. Each question carry one mark.
	1.What is the characteristic of delayed transit and continuous release systems?
	Mark only one oval.
	Release the drug along the entire length of GIT
	Prolonged their residence in the GIT and release
	Release only at a specific drug
	Release as soon as comes in contact to the saliva

10.	2What is the characteristic of matrix dissolution-controlled release systems?
	Mark only one oval.
	Release the drug along the entire length of GIT Prolonged their residence in the GIT and release
	Release only at a specific drug
	Employ waxes to control the rate of dissolution
11.	3.What are the characteristics of Matrix diffusion-controlled release systems?
	Mark only one oval.
	Release the drug along the entire length of GIT
	Drug disperse in an insoluble matrix of rigid hydrophobic materials
	Release only at a specific drug
	Employ waxes to control the rate of dissolution
12.	4.Which is the major process of absorption for more than 90% of drugs?
	Mark only one oval.
	Facilitated diffusion
	Active transport
	Endocytosis
	Passive diffusion

13.	5.Which kind of molecules cannot pass through a pore transport?
	Mark only one oval.
	Low Molecular weight molecules
	Water-soluble drugs
	Molecules up to 400 Dalton
	Molecules greater than 400 Dalton
14.	6.What is the driving force of pore transport?
	Mark only one oval.
	Hydrostatic pressure
	Concentration gradient
	Electrochemical gradient
	Charge equilibration
15.	7.What influences the permeation of drugs in an Ionic or Electrochemical diffusion?
	Mark only one oval.
	Charge on the membrane
	Charge on the particle
	Concentration gradient
	Equilibration of charge

16.	8.Which drugs are absorbed through pore transport?
	Mark only one oval.
	High lipophilicity
	Water-soluble drugs of molecular weight less than 100 Dalton
	Oily droplets
	Affinity for carriers
17.	9. Which types of drugs get absorbed by ion-pair transport?
	Mark only one oval.
	High lipophilicity
	Oily droplets
	Affinity for carriers
	Drugs that ionize at all pH conditions
18.	10.Transfer of an endocytic vesicle from one extracellular compartment to another is known as-
	Mark only one oval.
	Phagocytosis
	Transcytosis
	ΩPinocytosis
	Endocytosis

19.	11,Which part of the membrane is responsible for the relative impermeability of polar molecules in and out of the cell?
	Mark only one oval.
	O Polar head
	Hydrophobic head
	Hydrophobic core
	Non polar head
20.	12.What is the most important characteristic of a drug to be absorbed after oral administration?
	Mark only one oval.
	Dissolved in HCL
	Dissolved in alkaline solution
	Can pass through the cell membrane
	Form aggregate and settle down
21.	13.Which one of these is an example of enteral route?
	Mark only one oval.
	Skin
	☐ I.V.
	Gastrointestinal
	Inhalation

22.	14.Gastrointestinal route is an example of which of the major drug delivery routes?
	Mark only one oval.
	The enteral route
	The parenteral route
	The topical route
	The intravenous route
23.	15.The onset of drug action depends on the rate of:
	Mark only one oval.
	Drug absorption
	Drug dissociation
	pH
	GI motility
24.	16.Movement of ions through the pores in cell membrane can be controlled by-
	Mark only one oval.
	Counter ion transport
	Expenditure of intracellular energy
	Both a & b
	None of these

25.	Which one of the following has very low perfusion rate?
	Mark only one oval.
	Fat and bone
	Muscle and skin
	Lungs and kidney
	Liver and Heart
26.	18.What happens when an obese person is given with a lipophilic drug?
	Mark only one oval.
	Drug aggregation will begin
	He cannot absorb lipophilic drugs
	High adipose tissue take up most of the lipophilic drug
	A large amount of drug is needed as the person's weight is more
27.	19.Who has poorly developed BBB?-
	Mark only one oval.
	Infants
	Adults Of age more than 20
	Aged
	Children at puberty

28.	20.Who has higher fat content?
	Mark only one oval.
	Adults of age over 60 Adults of age more than 30
	Infants and elders
	At the time of puberty
29.	21.What should be the molecular weight of the drug molecules so that they can easily pass through the membrane?
	Mark only one oval.
	600-800 Dalton
	500-600 Dalton
	200-400 Dalton
	300-500 Dalton
30.	22.Which of the following drug cannot pass through the plasma membrane barrier?
	Mark only one oval.
	Drug size less than 50 Dalton
	Lipophilic drugs 50-600 Dalton
	Polar or ionized drugs of size greater than 50 Dalton
	Drug size more than 600 Dalton

31.	23.Which cell make up the blood-brain barrier?
	Mark only one oval.
	Squamous epithelium cells Fat cells Red blood cell Endothelial cells
32.	24.In equation, X=Vd*C, what does Vd denotes?
	Mark only one oval.
	Density Volume of blood Volume of body Volume of distribution
33.	25.The body water has 3 distinct compartments. Which one of these is not one of the compartments? Mark only one oval. Vascular fluid Intracellular fluid Extracellular fluid Between the tissue layers

34.	26. How a patient's plasma volume can be determined?
	Mark only one oval.
	Evans blue Na+ D20 Tritiated water
35.	27.Which one of the below does not belong to the 4 classes of lipoprotein?
	Mark only one oval.
	Chylomicrons Very low-density lipoproteins High-density lipoprotein Fatty acids
36.	28.Which drugs bind to RBC membrane? Mark only one oval.
	Pentobarbital

37.	29.What is the molecular weight cut off for biliary excretion?
	Mark only one oval.
	Less than 300 Dalton
	More than 300 Dalton
	Less than 200 Dalton
	More than 200 Dalton
38.	30.For a certain drug, the bile flow rate is 0.7 ml/mm, the biliary drug concentration is 2g/ml and the plasma drug concentration is 0.8g/ml. What will be the bile clearance?
	Mark only one oval.
	1.50 ml/mm
	1.75 ml/mm
	2.75 ml/mm
	3 ml/mm
39.	31.Which compounds are excreted through the lungs?
	Mark only one oval.
	Lipophilic
	Gaseous
	Liquid and hydrophilic
	Solid less than 100 Dalton

32.What is the pH of the milk secreted by human mothers?
Mark only one oval.
6.4-7.6 5.4-6.6 . 7-8 6-7
33. Which of the following is not a factor influencing pulmonary excretion? Mark only one oval.
Pulmonary blood flow The solubility of volatile substance Rate of respiration Heart rate
34. How is renal clearance expressed mathematically? Mark only one oval. Rate of urinary excretion/plasma drug concentration Plasma drug concentration/rate of urinary excretion 1/ Plasma drug concentration 1/ Rate of urinary excretion

43.	35.What is the equation for clearance?
	Mark only one oval.
	Elimination rate / plasma drug concentration Plasma drug concentration/elimination rate 1 / Plasma drug concentration 1 / Elimination rate
44.	36.What will be the elimination rate if the clearance is 130 ml/min and drug concentration is 0.8 g/ml?
	Mark only one oval.
	104 g/min 140 g/min 130 g/min 100 g/min
45.	37.What will be the renal clearance ratio of a drug whose renal clearance is 40 ml/min and the clearance of creatinine is 95 ml/min? Mark only one oval. 0.421 2.38 0.010 0.025

46.	Which of the following is not a physicochemical factor of drug that can affect the renal excretion?
	Mark only one oval.
	Molecular size
	Disintegration rate
	pKa of the drug
	Lipid solubility
47.	39.Which drugs cannot be filtered through glomerulus?
	Mark only one oval.
	Drugs bound to plasma proteins
	Unbound
	Free drug
	Below molecular weight of 300 Dalton
48.	40.What is the equation of bioavailable fraction?
	Mark only one oval.
	1/Bioavailable dose
	1/Administered dose
	Bioavailable dose/ Administered dose
	Administered dose/ Bioavailable dose

49.	41. Which of the following is the pharmacodynamics method of studying bioavailability?
	Mark only one oval.
	Acute pharmacologic response
	Plasma-level time studies
	Urinary excretion studies
	Stool excretion studies
50.	42. Which of the following will not be a parameter that should be examined for urinary excretion data?
	Mark only one oval.
	(dXu/dt)max
	(tu)max
	Xu
	Cmax
51.	43.On which individuals study of newly invented medicines are not done?
	Mark only one oval.
	Pregnant and elderly
	Fasting person
	Healthy person
	Adult male

5	۷.	44.A drug can be 100 % bloavailable, it it is administered by-
		Mark only one oval.
		Oral route
		Intravenous route
		Transdermal route
		Rectal route
5	3.	45.What does the word "open" mean in the one compartment open model?
		Mark only one oval.
		The drug easily enters
		The drug readily mixes with the blood
		Unidirectional input and output
		Easy absorption
5	4.	46. How much time does an intravenously administered drug take to complete a complete circulation?
		Mark only one oval.
		5-8 min
		7-10 min
		1-3 min
		1 min

55.	47. What is the equation to find out the apparent volume of distribution?
	Mark only one oval.
	Amount of drug in the body/plasma drug concentration
	Plasma drugconcentration/amount of drug in the body
	1 / plasma drug concentration
	1 / Amount of drug in the body
56.	48.The i.v. bolus dosage is 500mg and the plasma drug concentration is 0.8 mg/ml. What should be the volume of distribution?
	Mark only one oval.
	625 mg/ml
	625 I
	625 ml
	0.0016 mg/ml
57.	49.To have a plasma distribution value of 900 ml and plasma drug concentration to be 1.2 mg/ml what should be the amount of drug that should be given to the patient?
	Mark only one oval.
	1080 ml
	1080 g
	1080 mg
	1g/ml

58.	50. Which organ comprises the peripheral compartment in a two compartment model?
	Mark only one oval.
	Liver
	Lungs
	Kidneys
	Muscles
59.	51.Which of the following is not a category of 2 compartment model?
	Mark only one oval.
	Two compartment model with elimination from the central compartment
	Two compartment model with elimination from only plasma and blood
	Two compartment model with elimination from the peripheral compartment
	Two compartment model with elimination from both the compartments
60.	52.Which of the following is not a mechanism for pharmacokinetic analysis?
	Mark only one oval.
	Compartment analysis
	Non compartment analysis
	Physiologic modeling
	Human model

61.	53.In which of the following models the body is considered to be composed of several compartments?
	Mark only one oval.
	Compartment model
	Noncompartment model
	Physiologic model
	Human model
62.	54.In which model compartments are joined in series?
	Mark only one oval.
	Compartment model
	Caternary model
	Physiologic model
	Mammillary model
63.	55.Which of the following is not a characteristic of the caternary compartment model?
	Mark only one oval.
	It gives a visual representation of various rate processes in drug disposition
	It shows how many rate constants are necessary
	Compartments and parameters bear a relationship with physiologic functions
	Useful in predicting drug

64.	56.Which pharmacokinetic model is drawn on the basis of anatomic and physiologic data?
	Mark only one oval.
	Compartment model
	Caternary model
	Physiologic model
	Mammillary model
65.	57.Which of the following will be a disadvantage for the physiologic model?
	Mark only one oval.
	Prediction of drug concentration in various body regions
	Correlation of data in several animal species
	Obtaining experimental data for each of the organs
	The model gives an exact description of the drug concentration-time profile for any organ
66.	58.In pharmacokinetics, the term 'rate' refers to a change in which of the following measurements over time.
	Mark only one oval.
	Drug dose
	Drug elimination
	Concentration of drug in plasma
	Drug metabolism

6/.	59. The most commonly used model in clinical pharmacokinetic situations is the:
	Mark only one oval.
	One-compartment model
	Two-compartment model
	Multicompartment model
	Non-compartmental model
68.	60.The amount of drug per unit of volume is defined as the:
	Mark only one oval.
	Volume of distribution
	Concentration
	Rate
	Absorption
69.	61.In pharmacokinetics, what does "smooth tissue" mean?
	Mark only one oval.
	Rich in water
	Most accessible for drugs
	Bone tissue
	Deformable mechanically

70.	62. Which method is not suitable to calculate area under the curve?
	Mark only one oval.
	Least square method
	Weighing
	Trapezoidal rule
	Integration of curve
71.	63.At a constant clearance rate, a drug with increased Vd, will have -
	Mark only one oval.
	Longer elimination half life
	Reduced elimination half life
	No effect on half life
	.Fluctuating half life
72.	64.In which case t1/2 is independent of drug concentration
	Mark only one oval.
	First order
	Zero order
	Second order
	Non-linear

/3.	65. Which marker is used to estimate volume of plasma?
	Mark only one oval.
	Evans blue Cr-51
	── HTO
	Antipyrine
74.	66.Unit of AUC is -
	Mark only one oval.
	Mg/L.h
	mg.L.h
	(mg/L).h
	mg.L/h
75.	67.Clearance is determined as the ratio of
	Mark only one oval.
	Rate of Absorption to Plasma drug concentration
	Rate of Elimination to Volume of distribution
	Rate of Elimination to Plasma drug concentration
	Option 4Rate of Elimination to Plasma drug concentration

76.	68.The loading dose of a drug is usually based on
	Mark only one oval.
	Total clearance of the drug
	Plasma protein binding percentage
	Fraction of drug excreted unchanged in urine
	Apparent volume of distribution and desired steady state drug concentration in plasma
77.	69.Which is not a factor influencing the plasma elimination half life of a drug?
	Mark only one oval.
	Aparent volume of distribution
	Protein binding
	Clearance
	Route of administration
78.	70. Which of the following drug obeys three compartmental open model drug disposition?
	Mark only one oval.
	Tubocurarine
	Theophylline
	Metoclopramide
	Ampicillin

/9.	/1.The objective of pharmacokinetic model is to quantify the drug content ii
	Mark only one oval.
	Dissolution Distribution Disintegration Diffusion
80.	72.A system showing dose dependent pharmacokinetics, will follow-
	Mark only one oval.
	Linear pharmacokinetics Non-linear pharmacokinetics Zero order Pseudo first order
81.	73. Which of the following statement is correct with respect to non-linear pharmacokinetics?
	Mark only one oval.
	First order
	First order followed by zero orde Pseudo first order
	Zero order

82.	74.Double reciprocal plot of Michaelis- Menten equation is also called as-
	Mark only one oval.
	Hanes- Woolf plot
	Lineweaver- Burke plot
	Scatchard plot
	Metabolism
83.	75. Which of the following is not involved in non-linear pharmacokinetics?
	Mark only one oval.
	Binding to proteins and tissue
	Release and dissolution
	Enzymes or carrier systems
	Diffusion and permeability

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