(Bio-pharmaceutics & Pharmacokinetics Question Bank SEM-VI)

THIRD YEAR B.PHARM (SEM-VI) CBCS SYLLABUS	
Q.1is defined as rate and extent of drug absorption.	
a. Bioavailability	b. Bioequivalence
c. drug disposition	d. absorption
Q.2. The movement of drug from one comp	partment to other compartment is referred as
a. Bioavailability	b. drug distribution
c. drug disposition	d. absorption
Q.3. Passive transport process involve all e	xcept
a. Passive difussion	b. Pore transport
c. ion-pair transport	d. Antiport
Q.4. Facillated diffusion is also known as	
a. Active difussion	b. mediated diffusion
c. ion-pair transport	d. Symport
Q.5 is active transport process	
a. Persorption	b. Pinocytosis
c. Phagocytosis	d. ion-pair transport
Q.6. BCS Class III have	
a. Low solubility & Low permeability	
b. High solubility & low permeability	
c. Low Solubility & High permeability	
d. High solubility & high permeability	
Q.7 . Equation for zero order half life is	
a. $t_{1/2} = 0.5 A_0/k_0$	b. $t_{1/2} = 2A_0/k_0$
c. $t_{1/2} = 1.5 A_0/k_0$	d. $t_{1/2} = 0.693 A_0/k_0$
Q.8 . Equation for first order half life is	
a. $t_{1/2} = 0.5 A_0/k_0$	b. $t_{1/2} = 2A_0/k_0$
c. $t_{1/2} = 1.5 A_0/k_0$	d. $t_{1/2} = 0.693/k$

Q.9. In cell uptake studies use of per	istaltic pump is required for
a. Single pass perfusion	b. Everted Sac Technique
c. Doluisio method	d. Everted Ring Technique
Q.10. Blood brain barrier consist of a	specialized cells except
a. Astrocytes	b. Endoblasts
c. Pericytes	d. Endothelial cells
Q.11. Formula for volume of distribution	ation is
a. $Vd = C/X$	b. $Vd = X/C$
c. $Vd = Ke/X$	d. $Vd = Ke/C$
Q.12. Resident time for large intestin	ne is
a. 2 hrs	b. 6-12 hrs
c. 4 hrs	d. 3 hrs
Q.13. Intestinal transit time for Duoc	lenum is
a. 0.5 to 1 hrs	b. 3 to 6 hrs
c. 2 hrs	d. 5 minute
Q.14. Majority of drug that binds to	extravascular tissues, the order of binding is
a. Liver>Kidney>Lung>Muscles	b. Lung>Liver>Kidney>Muscles
c. Liver> Lung >Kidney >Muscles	d. Liver>Kidney> Muscles>Lung
Q.15. Which of this is not phase II reaction	
a. Acetylation	b. Methylation
c. Hydrolysis of esters	d. Conjugation of glucoronic acid
Q.16. Clearance is defined as the ration of	
a. Elimination rate/Plasma drug Concentration	
b. Plasma drug Concentration/ Elimination rate	
c. Vd/AUC d. AUG	C/Vd
Q.17. The beginning of pharmacological response is called as	
a. Onset time	b. Duration of action
c. Onset of action	d. Intensity of action

Q.18. Which of this is model indep	pendent approach of	pharmacokinetics
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a. Mammillary model	b. Perfusion model

c. Distributed parameter model d. Noncompartmental analysis

Q.19. Absorption rate constant can be calculated bya. Method of residualsb. Sigma minus method

c. Model independent method d. Noncompartmental analysis

Q.20. First order pharmacokinetic model equation is

a. LogC= LogC ₀ - K _E t/2.303	b. LogC= LogC ₀ - $K_E/2.303$
c. LogX= LogC ₀ - K _E t/2.303	d. LogC ₀ = LogC- 2.303/K _E t

Q.21. Bioavailability is generally in the order of.....

a. Oral> Parenteral>Rectal>Topical	b. Parenteral>Oral> Topical> Rectal
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c. Oral>Parenteral>Topical >Rectal d. Parenteral>Oral>Rectal>Topical \setminus

Q.22. Flow through cell belongs to which type of USP appratus

a. USP type 1	b. USP type 2
c. USP type 4	d. USP type 3

Q.23. .. is used for molecular inclusion complexation for solubility enhancement of drugs

a. Sodium Lauryl suphate	b. Cyclodextrine
c. CMC	d. HPMC

Q.24. IV bolus dose of 200 mg given by IV. Following one compartment kinetics described by equation C = e-0.91t. Claculate ClT, Vd.

a. 0.0173 ml/min, 1.44 ml	b. 0.0273 ml/min, 2.5 ml
c. 0.0785 ml/min, 3.22ml	d. 0.0673 ml/min, 4.44 ml

Q.25. IV bolus dose of 25mg given by IV. Following one compartment kinetics having half life is 36 hrs and volume of distribution is 27000 lt. Claculate CIT, C_0 .

a. 8640 ml/min, 0.00092 mg/lit	b. 5220 ml/min, 0.92 mg/lit
c. 8520 ml/min, 0.92 mg/lit	d. 5220 ml/min, 0.092 mg/lit