-	-	
	1)	Water soluble vitamins are not stored in body (liver) except
		a) Inositol b) Pantothenic acid c) Cynocobalamine d) Pyridine.
	2)	β- carotene is the synonym of
		a) Vitamin A b) Vitamin B c) Vitamin C d) Vitamin D
	3)	7- dehydrocholesterol when exposed to sunlight gets converted into.
		a) Ergocalciferol b) Cholecalciferol c) Cholestrol d) Ergosterol
	4)	Conjugated Protien involved in the vision is
		a) Glycoprotien b) Lipoprotien c) Metalloprotien d) Rhodopsin.
	5)	Calcitriol, a hormone required for the absorption of calcium is synthesized by
		<ul> <li>a) Pyrenchyma in liver</li> <li>b) Pyrenchyma in kidney</li> <li>c) Kuffer cell in liver</li> <li>d) β-cell in pancreas.</li> </ul>
	6)	Tocopherol, Vitamin E is
		a) Antioxidant b) Antiplatelet factor c) Night blindness factor d) Anticougulant
	7)	Menadione is the synthetic form of
		a) Vitamin A b) Vitamin D c) Vitamin E d) Vitamin K
	8)	Glucose 6- phosphate dehydrogenase test is done to avoid the adverse reaction due to the application of.
		a) Isoniazide b) Daunorubic in c) Erythrocin d) Primaquine
	9)	For the absorption of Vitamin E, one of the following is necessary
		a) Iodine b) magnesium c) Selenium d) calcium
	10)	A competitor inhibitor of enzyme:
		a) Increases K <sub>m</sub> without affecting V <sub>max</sub> b) Decreases K <sub>m</sub> without affecting V <sub>max</sub>
		c) Increases $V_{max}$ without affecting $K_m$ d)Decreases both $K_m$ & $V_{max}$
	11)	Intestinal absorption of Calcium & Phosphorous is impaired in the deficiency of
		a) Vitamin A b) Pantothenic acid c) Lipoic Acid d) Vitamin D
	12)	One of the following enzyme does not offer protection against free radicals
		a) Catalase b) Lipase c) Superoxide dismutase d) Peroxidase
	13)	Which one of the following is an essential cofactor in carboxylation reaction
		a) Coenzyme A b) TP c) Biotin d) CTP
	14)	Alopecia in mouse can be caused due to the deficiency of
		a) Cyanocobalamine b) Lipoic acid c) Niacin d) Inositol
	15)	Dicoumarol poisoning can be treated by using antidote, one of which is
		a) Menadione b) Tocopherol c) Retinol d) Pantothenic acid
	16)	Following enzyme is present in sperm head
		a) Aldolase b) Amylase c) Creatine kinase d) Hyaluronidase
	17)	Pyruvate from aerobic glycolysis enters in TCA cycle by conversion into
		Acetyl coA. This conversion requires coenzyme form of
		a) Riboflavin b) Thiamine c) Niacin d) Pyridoxin
	18	Determination of SGOT level is useful in the diagnosis of
		a) Hepatitis b) Cancer c) Acute pancreatitis d) Muscular atrophy
	19)	One of the following involved in the synthesis of steroids from cholesterol by hydroxylation in adrenal cortex is
		a) Pyridoxin b) Tocopherol c) Ascorbic acid d) Niacin
	20	Oxidation of FADH2 to FAD in oxidative phosphorylation yields
	~	a) 1 ATP b) 2 ATP c) 3 ATP d) 4 ATP
	21)	Warferin, a anticoagulant drug, antagonizes the activity of
	-	a) Vit. D b) Vit. K c) Inositol d) Cyanocobalamine
	22	One of the following process occurs exclusively outside mitochondria
		a) β – oxidation b) Glycolysis c) TCA cycle d)Urea cycle
	23	Synthesis of prothrombin is catalysed by
	2.4	a) Vit. A b) Vit.C c) Vit. E d) Vit. K
	24	Deficiency of Hypoxanthine Guanine phosphoribosyl transferase leads to
		a) Lesch - Nyhan syndrome b) Von Gierk's disease c) Hypouricemia d) Reve's syndrome
	25	Pyridine, a heterocyclic nucleus, is present in the structure of
		a) Folic acid b) Thiamine c) Riboflavin d) Niacin
1		



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1) HLB range of Detergents are	
A) 15-18 B) 8-16 C) 13-15	D) 7-9
2) Polysobate 80 (Tween 80) is a surfactant of type  A) Amphiphilic B) anionic C) Cationic	D) Non- Ionic
3) Nemst potential is	
A) Potential between shear plane and electroneutral region     C) Potential at shear plane	D) Electrokinetic potential
4) The relationship between pressure of the gas and amount adsor-	rbed at constant temp. Has been expressed by
	dlich isotherm
	no lecular adsoption
5) For the wetting of solid by liquid, the contact angle should have	
A) 0 B) 90 C) 180	D) A or B
6) Surface tension is defined as the surface free energy per unit	D) Volume
A) Area B) density C) length  7) The reaction follow zero order rate kinetic, Shelf life is express	
A) a/2K <sub>0</sub> B) 0.1 a/K <sub>0</sub> C) 0.105/k <sub>0</sub>	D)0.693/k <sub>0</sub>
8) Passive diffusion follows	D)0.073/R0
A) Zero order rate kinetic     B) Pseudo zero order rate	kinetic
C) First order rate kinetic D) Pseudo first order rate k	
9) The conversion of trans- stilbene to cis stilbene follows the me	
A) Bimolecular B) Termolecular C) Unimolecula	
(0) Cold place indicate the product should be stored in a place	
A) Not exceeding 8°C B) Between 2°C and 8°C C	C) Between 8° C and 25° C D) Both A and B
11) The accelerated stability studies are primarily used to determine	ine
A) Energy of activation of the reaction     B) K value at	
() K value at room temperature D) shelf life o	
12) Which one of these methods is the most effective in preventing	g the rate of hydrolysis?
A) Buffer B) Comlexation C) Removal of water	
(3) Which of the following reaction is observed in the degradation	D) Recimization
A) Decarboxylation B) Hydrolysis C) Oxidation     Which one of the following is primarily not a chemical decorption.	
	D) Volatilization
15) Arrhenius equation explains the effect of temperature on rate	
A) $K = A e^{-Ea/RT}$ B) $K = A e^{Ea/RT}$ C) $A = k e^{Ea}$	$^{/RT}$ D) A= k e $^{-Ea/RT}$
16) Which one the following ingredients enhances the dissolution	
A) Gum acacia B) Ethylcellulose C) Lactose	D) Magnesium stearate
17) Which one of the following creates more difficulties regarding	g dissolution?
A) Amorphous form B) Anhydrous form C) Crystalline F	orm D) Metastable form
18) Which category of drugs is evaluated for dissolution	
A) Highly diffusible B) Ionizable C) Poorly water soluble	
19) According to Noyes Whitney equation, the factor that not affect	
A) Intrinsic solubility B) surface area C) Temperature	
20) Which one of the equation is used to identify the powder drug	well cube root D) Noyes- Whitney
A) Hendersen- Hasselbalch B) Higuchi C) Hixson- Cro     D In Ficks First law rate of mass transfer is expressed as	well cute foot D) Noyes- Whitey
A) Concentration gradient B) Flux C) diffusion coefficier	or D) All of the above
22) When the release of drug from dosage form satisfies Higuchia	s equation the release of drug can be considered a
A) Absorption rate controlled B) Diffusion rate con	
( ) Dissolution rate controlled D) Dosing rate control	
23) The degree of ionisation of weak electrolyte drug can be esti-	
A) Diffusion B) Dissociation constant C) Partition coeffi	
SUDE COLL	
Court Car	



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**GPATTEST SERIES 2019-20** 

est o<sub>2</sub>

				HO-C-CH=C=CH
	Which set of hybridization states of C1, C2	, and C3 of the following	molecule is correct?	4 4 4
	a) sp², sp², sp² .√6) sp², sp², sp	c) sp <sup>3</sup> , sp <sup>2</sup> , sp	d) $sp^3$ , $sp^2$ , $sp^2$	C1 C2 C3
ř	Which of the Callendar of the following	A CONTRACTOR OF THE CONTRACTOR		

- 2. Which of the following statements is wrong?
  - a) When two orbitals overlap in-phase with each other, a bonding molecular orbital forms.
  - b) When two orbitals overlap out-of-phase with each other, an antibonding molecular orbital form.
  - When one of two atoms connected by a o bond rotates about the bond axis, orbital overlap is lost.
  - d) When one of two atoms connected by a π bond rotates about the bond axis, orbital overlap is lost.
- 3. Which set of approximate bond angles at C1, C2, and N of the following molecule indicates the correct shape?

4. Which alkene has the (E)-configuration?

5. Which molecule contains an sp-hybridized atom?

- a) HCO2H
- b) HNO:
- c) HNO2
- WHEN

6. Which set of approximate bond angles at C1, C2, and N of the following molecule indicates the correct shape?

7. Which set of hybridization states of C1, C2, and N of the following molecule is correct?

C1 sp<sup>2</sup>, C2 sp<sup>3</sup>, N sp<sup>3</sup> b) C1 sp<sup>3</sup>, C2 sp<sup>2</sup>, N sp<sup>3</sup> c) C1 sp<sup>3</sup>, C2 sp<sup>2</sup>, N sp<sup>2</sup> d) C1 sp<sup>2</sup>, C2 sp<sup>2</sup>, N sp<sup>3</sup>

8. The inductive effect

Implies the atoms ability to cause bond polarization

- b. Increases with increase in distance
- c. Implies the transfer of lone pair of electrons from more electronegative atom to the lesser electronegative atom in a molecule
- d. Implies the transfer of lone pair of electrons from lesser electronegative atom to more electronegative atom in a molecule

9. The oxygen atom in phenol

- a. Exhibits only inductive effect
- b. Exhibits only resonance effect
- Has more dominating dominating resonance effect then inductive effect
- d. Has more dominating inductive effect than resonance effect

10. A group that can donate an electron pair is

- a. Bronsted acid
- b. Bronsted base
- c. Lewis acid

devis base

SEAL

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Which of the following is the simplest amino acid?	The second secon
a) Glycine b) Alanine c) Aspergine d) Tyrosine	
I the animal cells are interconnected by	
and collins all the December 1	smodesmata
FRNA is synthesized by	snicaesmata
a) Cytoplasm b) Golgi body c) Nucleolus d) Nucleus	
Gristae are associated with?	
a) Mitochondria b) Cytoplasm c) Vacuole d) Ribosom	oes
5. Glycocalyx is associated with	
a) Cell wall b) Plasma membrane c) Nucleus d) R	libosomes
6. Detoxification of lipid drugs and other harmful compounds in FR is carried	d out by?
b) Cytochrome bf c) Cytochrome D	d) Cytochrome F
The sinoatrial node depolarizes more frequently under the influence of	a) cylocia one i
a) medulla oblongata b) vagus nerve c) norenine phrine	d) acetylcholine
is the enzyme that converts Angiotensinogen to Angiotensin I.	a) acceptationale
a) Rennin b) ACE c) ANP d) ADH	
Digestive enzymes are present in	
a) Liposomes b) Lysosomes c) Ribosome d) Mitochor	ndria
10. Mitral valve is present between	
a right atrium and left ventricle b) right and left ventricle c) left ventricle	and aorta d) left atrium and left ventricle
Cen drinking is	o, ich ad full and felt velitricie
a) Evocytosis b) Endocytosis c) Pinocytosis	l) Phagocytosis
Centrioles take part in the formation of	
a) Cell plate b) Spindle c) Nucleus d) To start cell	division
Synthesis of RNA and proteins take place in     M phase     b) S phase     CL Brown	
CITI PRISO	
Spindle fibers are made up of	
a) Spindles b) Tubulin c) Flagella d) Humulin	
15 Chromosomes are separated during?  a) Prophase b) Anaphase c) Metaphase b) T. 1. 1.	
	e
a) atria relax b) ventricles contract	
a) atria relax b) ventricles contract c) ventricles relax	d) atria contract
a) heart rate b) attacks t	
18. DNA replicates during c) blood flow d) heart rate a	and stroke volume
a) GI phase b) G2 phase	
19 Chromosomes are arranged along equator during	
31 Prophese	
20. Formation of antibodies within our body is called?	
	We are the second
Metastasis is associated with c) Innate Immunity	d) Acquired immunity
a) Malignant tumor b) Benign tumor c) Gall Tumor	
21 Leukemia is due to	d) Crown gall tumor
a) Excess of RBCs b) Excess of Platelets c) Excess of WBCs	
2) The opening of right atrium into right ventricle is guarded by	d) Excess of antibodies
a) mirrar valve b) tricuspid valve	and .
21 The organism which carries disease from one organism to another is called	aortic semilunar valve
0) riosi c) Parasite d) Vector	
25 Which immunoglobulin is largest in size?	32.
1   Page	57
ORNOE COLLEG	7
66	A Alexander

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