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#### **MCAT Grand Test 02**

#### **PHYSICS**

2.

Directions: For each question below you are given four choices. SELECT ANY ONE THAT IS MOST

APPROPRIATE ANSWER

ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT

BY THE WORDS THEMSELVES.

1. When two bodies separate instantaneously after collision. The collision is said to be?

- (a) Partially elastic
- (b) Partially inelastic
- © Perfectly inelastic
- (d) Perfectly elastic

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According to the second law of motion, acceleration is proportional to:

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8			
(a) Fores	(b) Time	(c) Mass	(d) Distance

3. When the object is placed at 2f of convex lens then the image formed behind the lens will be

A) B) At 2f C) Beyond 2f D) Between f and 2f

4. When the object is placed at principal focus of a convex lens then the image is formed at

A) Same distance

B) Infinity

C) Same side of lens

C) Centre of curvature

5. Which one of the following cannot measure wavelength of X-rays in any way

A) Bragg's law B) Diffraction grating C) Compton effect D)  $\begin{array}{c} \text{Photo electric} \\ \text{effect} \end{array}$ 

6. Which one of the following properties is not found in both sound and light

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A) Interference

Diffraction B)

Polarization C)

D) Reflection

7. The relation between time period T and angular velocity  $\omega$  is given by

(a)  $T = 2 \pi \omega$ 

(b)  $T = \omega/2\pi$ 

(c)  $T = 2\pi / \omega$ 

 $T = v \omega$ (d)

8. When a body moves in a circle, the angle between its linear velocity v and angular velocity  $\omega$  is

(a)  $0^0$ 

(b)  $45^{\circ}$ 

(c)  $90^{\circ}$ 

(d)  $180^{\circ}$ 

9. Π radians =

(a)  $90^{\circ}$ 

(b)  $180^{0}$ 

 $60^{0}$ (c)

 $30^{0}$ 

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In racing car moving along a circular path the friction at the wheels and banking of roads provides the 10.

(a) Centripetal Force

Centripetal Acceleration (c) Centre of Mass (d) (b)

Centrifugal Force

The time period is defined as the time required to traverse ....... by a revolving body. 11.

(a) One radian

(b) 180 degrees

(c) One revolution (d)

90 degrees

**12**. Which of the following particles can induce artificial radio-activity in certain nuclei?

(a)  $\alpha$ -particle

(b) β-particle

(c) γ-particle

(d) All of the above

Identify the alpha-particle? 13.

(a)  $_1H^1$ 

(b) <sub>1</sub>H<sup>2</sup>

(c)  $_{1}H^{3}$ 

<sub>2</sub>He<sup>4</sup> (d)

Which of the following particles move with velocity of light? 14.

(a)  $\alpha$ -particle

(b) β-particle

(c)  $\gamma$ -particle

(d) All of the above

The torque on a body will be zero if the angle between r and F is zero or:

 $90^{0}$ 

b.  $180^{0}$ 

 $270^{0}$ c.

d. None

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16.	Wh	at is kinetic energy of	a bo	dy of mass 10 k	g m	oving	g with	velocity 1	m/s²?		
	a.	10 Joules	b.	20 Joules			c.	5 Joules	d.	2.5 Joules	5
<b>17.</b>	Whi	ich of the following lis	sts of	physical quanti	ities	cons	sists c	only of vect	ors:		
	a.	Time, temperature,	velo	city			b.	Force, vol	ume, mo	mentum	
	c.	Velocity, acceleration	n, m	ass			d.	Force, acc	eleration	, velocity	
18.		vo forces each of mag ultant will be	gnitud	de 5N act along	the	sam	e line	on a body	, then th	e magnitude	of their
	a.	5N	b.	10N			c.	20N	d.	30N	
Dowr	nloa	ded More Samp	ole I	Papers from	1: <u>w</u>	/ww	.entr	rytest.cor	<u>n</u>		
For O	nlir	ne Test Preparat	ion	www.thecat	on	line.	com				
19.	Арр	lied force F on a body	y of n	nass m, moving	wit	h acc	elera	tion a is			
	a.	m/a	b.	a/m		$\Lambda$	c.	ma	d.	m:a	
20.		orce of 1000N acts on the impulse?	a bo	dy for 0.01 sec.	And	d cha	nges	its velocity	from 10	m/s to 20m/	s, what will
	a.	100 N-sec	b.	50 N-sec			c.	10 N-sec	d.	5 N-sec	
21.	W/h	en a projectile moves	unw	ards its vertical	l coi	mnor	nent (	of velocity			
~1.	VV 11			ards, its vertical	1 001	iiipoi	iciic (		nmas anı	ual to horizo	ntal
	a.	Remains constant	b.	Decreases	C.	Incre	eases	d. velo	=	341 (0 1101120	irtai
22.	The	center of gravity of a	cylir	nder is at							
	a.	The center of the to	p of t	the cylinder		b.	The	center of	the botto	om of the cy	linder
	c. '	A point on curved si	de of	the cylinder		d.	The	e mid-point	of axis		
22		la companya da		ad of 100 m /a a		d £		of 100 b		:+	مطالك والمعاجم
23.		transverse wave has	-	-	and	a tred	-	•			gtn will be
	a.	1 m	b.	10 m			C.	100 m	d.	1000 m	
24.		ich one of the followi	ng ca	n be used to dis	sting	guish	betw	een the so	ounds of a	a note playe	d on piano
2	and	violin?									

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	a. In	itensity of sour	nd b.	Pitch of so	ound	c.	Quality	of sound	d.	Loudness
25.	A lens	which is thicke	r in the mid	ldle and thir	ner at th	ne edge	is called			
	a. Co	oncave lens	b. Con	vex lens	C Plai	no-conc	ave lens	d.	Convex-co	ncave lens
26.	A strai	ght line passing	g through ce	enter of curv	vature of	the two	spheric	al surface	es of a lens	is called
	a. Di	ameter of the len	b. R	adius of the	lens	c. P	rincipal	axis	d. Prin	ciple focus
27.	A doub	ole convex lens	acts as a di	verging lens	when th	ne objec	t is place	ed		
	a. A	t the focus	b. At 2	f c.	Betwe	een f an	d 2f	d. W	ithin the foca	al length
Dow	ınloade	ed More Sa	mple Pa	pers fron	n: <u>www</u>	ı.entry	test.co	<u>m</u>		
For	Online	Test Prepa	ration: w	ww.theca	tonline	.com				
28.	A roun of the	d hole is cut in hole?	a metal pla	ite and it is o	cooled. V	Vhat wil	l be the	effect of t	the cooling	on the size
	a. R	emains same	b. S	hrinks	c. E	xpands	in size	d.	None of t	hese
29.		air at 300K and atmospheric p	-				to one-t	twentieth	of its origi	nal volume
	a. 90	000 K	b. 1	00 K		c. 4	50 K	d.	450° C	
30.	A mass ac	ccelerates unifor	mly when th	ie resultant f	orce actin	g on it				
	A is zero	B) is constant not zero		C)	es uniforr spect to t	•	1 ) )		nal to the di from a fixed	splacement I point.
31.	Which on	ne of the followin	ng statemen	ts about the	charge on	the elec	ctron is in	correct?		
		110	It is equal i magnitude	in to the	It is ed magni	<sub>l</sub> ual in tude to t	the	It can	be determir	ned lly if the mass
		sured in B)	charge on topoton.	the C)	charge particl	e on the l e.	beta- <sub>C</sub>		electron is	•

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32.	Einstein's theory of relativity suggests that	
	<ul> <li>(A) The laws of physics are the same in all inertial frames of reference</li> <li>(B) The speed of light in free space is universal constant</li> <li>(C) The speed of light is independent of the speed of the observer</li> <li>(D) All of the above</li> </ul>	
33.	Photoelectric effect is obtained most conveniently with	
33.	A) B) Infrared light C) Ultraviolet light D) Radio waves Visible light	
34.	Positrons are produced during	
<b>5</b>	A) B) Ionization C) Annihilation D) Pair production X-ray production	
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35.	Paschen series is obtained when all the transitions electron terminate on	
	A) B) Second orbit C) Ist orbit D) 4th orbit	
36.	The binding energy per nucleon is	
	(A) Minimum for heavy nuclei (B) Maximum for heavy nuclei	
	(C) Maximum for light nuclei	
	(D) Maximum for medium weight nuclei	
37.	Light of wavelength $\lambda$ is incident normally on a diffraction grating for which the slit spacing is equal to 3 $\lambda$ . What is the sine of the angle between the second order maximum and the normal?	
	A) 1/6 B) 1/3 C) 2/3 D) 3/2	
38.	Lenses of large aperture suffer from the defects of	
30.	(A) Spherical aberration (B) Chromatic aberration	
	(C) Neither spherical nor chromatic aberration (D) None of these	
	(a) results apreliate to the second and the second	
39.	In an ideal gas, the molecules have	
	(A) Kinetic energy only (B) Potential energy only	
1	(C) Both kinetic and potential energy (D) None of these	

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40.	The difference	between	Cp and	Cv is equal	to
-----	----------------	---------	--------	-------------	----

- A)
  One calorie
- B) Boltzman constant
- C) Universal gas constant
- O) Zero

#### **41.** An induced e.m.f is produced in a circuit when

- (A) Magnetic flux changes through the circuit
- (B) Magnetic flux remains constant in the circuit
- (C) There is no magnetic flux produced in the circuit

(D) All of the above

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- **42.** Which one of the following is the example of reversible process
  - (A) Heat produced by current

(B) Melting of ice

- (C) Work done against friction
- (D) None of these
- 43. Three capacitors of capacitance  $2\mu F$  each are connected in parallel. Their equivalent capacitance will be
  - A)
- $0.66 \mu F$

A voltmeter

- B)
- C)
- 6 μF
- D) 1.5 μF

#### 44. Which of the following is used to convert A.C into D.C

- A)
- A transistor
- c) A transformer
- D) A rectifier

#### **END OF PHYSICS SECTION**

#### PLEASE DO NOT TURN THIS PAGE UNTIL YOU ARE INSTRUCTED TO DO SO.

#### **CHEMISTRY**

**Directions:** For each question below you are given four choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER

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YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.

45.	Hydro	ogen bond is most im	portar	nt in compounds contai	ning F,	N and O. This is d	ue to thei	
	A.	High I.P. value	B.	High E.N. value	C.	Smaller size	D. H	ligh E.A. value
46.	Chara	acteristic smell of ble	aching	powder is due to free				
	A.	Cl <sub>2</sub>	В.	HCl	C.	HCIO	D.	CaCl <sub>2</sub>
47.	Choo	se the correct statem	nent fo	r a solution of H₃PO₄ (4	9gm/5	00ml).		
	A.			d than 1.5M solution.	В.		ncentrated	than 1.5M solution.
	C.	1.5m is more conce contains large amo		d than 1.5M former solution.	D.	1.5m and 1.5M concentration.	solutions	having same
					9.4			
48.	Durir	g the electrolysis of	18 gm (	of acidified water hydro	ogen re	eleased at cathod	e at S.T.P.	is
	A.	22.4 liters	В.	18 liters	C.	11.2 liters	D.	1 liter
Dow	ınloa	aded More Sai	mple	Papers from: w	ww.e	ntrytest.com		
For	Onli	ne Test Prenar	atio	n: www.thecatonl	ine co	om.		
		_			)			
49.		n of the following hit		fertilizer contains more KNO <sub>3</sub>	_		D.	Uroa
	A.	$NaNO_3$	В.	KIVO3	C.	KH <sub>4</sub> NO <sub>3</sub>	D.	Urea
50.	Glyce	erin boils at 290°C un	der nor	mal atmospheric press	sure. If	the pressure is re	duced to 5	50 mm of Hg, it will boi
	A.	Above 290 <sup>o</sup> C	В.	Below 290° C	C.	At 290° C	D.	Absolute zero
51.	\\/hat	is the number of ato	ome in	224 dm³ (litre) of chlor	ino gas	at C T D 2		
51.	A.	. is the humber of att	В.	20	_	6.0×10 <sup>24</sup>	D.	1.2×10 <sup>25</sup>
	Α.	10	Б.	20	C.	0.0/10	Б.	1.2/10
52.	At ST	P, which statement is	s incorr	rect?				
	A.	An 11.2 litre contai of ideal gas.	ner wil	I hold one-half moles	В.	22.4 litre samp masses.	les of diffe	rent gases have same
	C.	The gram molecula about 22400 ml.	r volun	ne for all gases is	D.	The density of a molecular	gases incre	ease with increasing

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53.	When	HCl gas is passed thr	ough s	saturated solution of ro	ck salt	the solubility of the s	alt is	
	A.	Increased	В.	Decreased	C.	Remains same	D.	None of these
54.		etal resists the attack		y kind (physical or chen			D	Attractive
	A.	Active	B.	Passive	C.	Reactive	D.	Attractive
55.	Comp	ounds of carbon and	hydro	gen in which the tetra	/alency	of carbon is fully sat	isfied are	called
	A.	Saturated	В.	Unsaturated	C.	Magnetic	D.	Para-magnetic
Dow	nloa	ided More San	nple	Papers from: w	ww.ei	ntrytest.com		
or	Onlir	ne Test Prepara	atior	1: www.thecatonli	ne.co	m		
56.	Which	n element is used in T	V pictu	ure tube?	W			
	A.	Na	В.	K	C.	Cs	D.	Ca
57.	increa	ise of		s the level of liquid in a		·		
	A.	Adhesive forces of t	he liqu	iid molecules	B.	Cohesive forces of t	he liquid	molecules
	C.	Both adhesive and c molecules	ohesiv	e forces of the liquid	D.	viscosity of the liqui	d	
58.	Which	n of the following pro	cesses	is most likely to be res	ponsibl	e for evolution of he	at	
	A.	Dissociation	B.	Sublimation	C.	Hydration	D.	None
59.	Choos	se the correct statem	ent					
	Α.	The shape of an orb quantum number.		termined by the	В.	The shape of an orb quantum number n		termined by the
	C.	The greater the value level is.	ıе of <i>,</i> t	he larger the sub-	D.	The lesser the value is	of the s	maller the sub-level
<b>60</b> .	When	Carbon dioxide pass	es thro	ough Ca(OH)₂ aqueous s	solution	n white precipitate is	formed.	It is
	A.	CaO	В.	CaCO <sub>3</sub>	C.	H <sub>2</sub> CO <sub>3</sub>	D.	Ca <sub>2</sub> CO <sub>3</sub>
61.	The sy	ystem in which all the	e axes a	are equal in length and	at right	t angle to each other	is called	

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A.	Tetragonal syste	B. Cu	ubic system	C.	Tr	igonal system	D.	Hexagonal syste	m
	nergy which is su		energies of a	III the ato	ms, m	olecules or io	ns within	a system is	
(a)	Internal energy	(b) E	External enei	rgy (	(c)	Bond energy	(d)	Polar energy	•
The	experimental rela	ationship be	tween a reac	tion and	rate a	nd the concer	ntration of	reaction is calle	d:
(a)	Rate Law	(b) Ord	er Law	(c)	Moled	cularity	(d) R	eaction Rate	
Tho	functional group	of actor ice							
			-COOR		(c)	-CHO	(4)	-COR	
. ,				<b>n:</b> \\/\\/\\/			(u)	con	
		-	-			ytest.com			
	_								
The						ctants and pro	oducts are	used is called:	
(a)	Heat sublimation	on (b)	Heat of net	utralizatio	n	(c) He	at of react	ion (d)	
The	general formula	of Alkene is:							
(a)	$C_nH_{2n+2}$	(b)	$C_nH_{2n}$	(c		$C_nH_{2n-2}$	(d)	None	
The	electroplating is	carried out i	n:						
(a)	Only acidic bat	h (b)	Only basic I	oath	(c)	Both in aci	dic and ba	sic bath	
The	e electro-negativit	ty of hydroge	en is:						
(a)	2.1	(b)	2.5	(c	)	1.2	(d)	2.0	
The	substance throug	gh which cur	rent can flov	v without	chan	ge in composi	tion is call	ed:	
(a)	Conductor	(b)	Insulator	(c)	)	Resistor	(d)	Electrolite	
An s	solution having ph	H = 13 is:							
(a)	Acidic	(b)	Basio	2	(c)	Neutr	al	(d)	
Sha	pe of CH4 molecu	les is:							
	The ecallect (a)  The (a)	Tetragonal systems The energy which is sure called:  (a) Internal energy  The experimental relation (a) Rate Law  The functional group (a) COOH-  WINDOADE MORE SOON (a) COOH-  WINDOADE TEST Prep  The amount of heat extends (a) Heat sublimation  The general formula (a) C <sub>n</sub> H <sub>2n+2</sub> The electroplating is extended (a) Only acidic bath  The electro-negativity (a) 2.1  The substance through (a) Conductor  An solution having phonomic and acidic extended (a) Acidic	Tetragonal system The energy which is sum of all the called:  (a) Internal energy (b) E  The experimental relationship be  (a) Rate Law (b) Ord  The functional group of ester is:  (a) COOH- (b)  Wnloaded More Sample Pa  Online Test Preparation:  The amount of heat exchanged w  (a) Heat sublimation (b)  The general formula of Alkene is:  (a) C <sub>n</sub> H <sub>2n+2</sub> (b)  The electroplating is carried out in  (a) Only acidic bath (b)  The electro-negativity of hydrogon  (a) 2.1 (b)  The substance through which cur  (a) Conductor (b)  An solution having pH = 13 is:  (a) Acidic (b)	Tetragonal system The energy which is sum of all the energies of a called:  (a) Internal energy (b) External energy  The experimental relationship between a react (a) Rate Law (b) Order Law  The functional group of ester is:  (a) COOH- (b) -COOR  WICH AND COOR  WWW.theca  The amount of heat exchanged when molar quality (a) Heat sublimation (b) Heat of new  The general formula of Alkene is:  (a) CnH2n+2 (b) CnH2n  The electroplating is carried out in:  (a) Only acidic bath (b) Only basic laws  The electro-negativity of hydrogen is:  (a) 2.1 (b) 2.5  The substance through which current can flow (a) Conductor (b) Insulator  An solution having pH = 13 is:  (a) Acidic (b) Basic	Tetragonal system The energy which is sum of all the energies of all the ator called:  (a) Internal energy (b) External energy (c)  The experimental relationship between a reaction and (c)  (a) Rate Law (b) Order Law (c)  The functional group of ester is:  (a) COOH- (b) -COOR  WINDOWN ONLINE TEST Preparation:   WWW.thecatonline.  The amount of heat exchanged when molar quantities (c)  (a) Heat sublimation (b) Heat of neutralization  The general formula of Alkene is:  (a) C <sub>n</sub> H <sub>2n+2</sub> (b) C <sub>n</sub> H <sub>2n</sub> (c)  The electroplating is carried out in:  (a) Only acidic bath (b) Only basic bath  The electro-negativity of hydrogen is:  (a) 2.1 (b) 2.5 (c)  The substance through which current can flow without (a) Conductor (b) Insulator (c)  An solution having pH = 13 is:  (a) Acidic (b) Basic	Tetragonal system The energy which is sum of all the energies of all the atoms, mealled:  (a) Internal energy (b) External energy (c)  The experimental relationship between a reaction and rate at (a) Rate Law (b) Order Law (c) Molecular Molecular (a) COOH (b) -COOR (c)  Winloaded More Sample Papers from: www.entrelations.  Online Test Preparation: www.thecatonline.com  The amount of heat exchanged when molar quantities of real (a) Heat sublimation (b) Heat of neutralization  The general formula of Alkene is:  (a) CnH2n+2 (b) CnH2n (c)  The electroplating is carried out in:  (a) Only acidic bath (b) Only basic bath (c)  The electro-negativity of hydrogen is:  (a) 2.1 (b) 2.5 (c)  The substance through which current can flow without change (a) Conductor (b) Insulator (c)  An solution having pH = 13 is:  (a) Acidic (b) Basic (c)	Tetragonal system  The energy which is sum of all the energies of all the atoms, molecules or io called:  (a) Internal energy (b) External energy (c) Bond energy  The experimental relationship between a reaction and rate and the concert (a) Rate Law (b) Order Law (c) Molecularity  The functional group of ester is:  (a) COOH- (b) -COOR (c) -CHO  WINDOWNIOAGED MORE Sample Papers from: www.entrytest.com  Online Test Preparation: www.thecatonline.com  The amount of heat exchanged when molar quantities of reactants and proceeding in the general formula of Alkene is:  (a) CnH2n+2 (b) CnH2n (c) CnH2n-2  The electroplating is carried out in:  (a) Only acidic bath (b) Only basic bath (c) Both in acidate in the electro-negativity of hydrogen is:  (a) 2.1 (b) 2.5 (c) 1.2  The substance through which current can flow without change in composition (a) Conductor (b) Insulator (c) Resistor  An solution having pH = 13 is:  (a) Acidic (b) Basic (c) Neutronic called in the concert of	Tetragonal system  The energy which is sum of all the energies of all the atoms, molecules or ions within called:  (a) Internal energy (b) External energy (c) Bond energy (d)  The experimental relationship between a reaction and rate and the concentration of (a) Rate Law (b) Order Law (c) Molecularity (d) R  The functional group of ester is:  (a) COOH- (b) -COOR (c) -CHO (d)  Willoaded More Sample Papers from: www.entrylest.com  Online Test Preparation: www.thecatonline.com  The amount of heat exchanged when molar quantities of reactants and products are (a) Heat sublimation (b) Heat of neutralization (c) Heat of react (a) CnH2n+2 (b) CnH2n (c) CnH2n-2 (d)  The general formula of Alkene is:  (a) CnH2n+2 (b) CnH2n (c) CnH2n-2 (d)  The electroplating is carried out in:  (a) Only acidic bath (b) Only basic bath (c) Both in acidic and base of the electronegativity of hydrogen is:  (a) 2.1 (b) 2.5 (c) 1.2 (d)  The substance through which current can flow without change in composition is call (a) Conductor (b) Insulator (c) Resistor (d)  An solution having pH = 13 is:  (a) Acidic (b) Basic (c) Neutral	Tetragonal system The energy which is sum of all the energies of all the atoms, molecules or ions within a system is called:  (a) Internal energy (b) External energy (c) Bond energy (d) Polar energy The experimental relationship between a reaction and rate and the concentration of reaction is called:  (a) Rate Law (b) Order Law (c) Molecularity (d) Reaction Rate  The functional group of ester is:  (a) COOH- (b) -COOR (c) -CHO (d) -COR  ***MIloaded More Sample Papers from: **www.entragest.com**  Online Test Preparation: **www.thecatonline.com**  The amount of heat exchanged when molar quantities of reactants and products are used is called:  (a) Heat sublimation (b) Heat of neutralization (c) Heat of reaction (d)  The general formula of Alkene is:  (a) C <sub>n</sub> H <sub>2n+2</sub> (b) C <sub>n</sub> H <sub>2n</sub> (c) C <sub>n</sub> H <sub>2n 2</sub> (d) None  The electroplating is carried out in:  (a) Only acidic bath (b) Only basic bath (c) Both in acidic and basic bath  The electro-negativity of hydrogen is:  (a) 2.1 (b) 2.5 (c) 1.2 (d) 2.0  The substance through which current can flow without change in composition is called:  (a) Conductor (b) Insulator (c) Resistor (d) Electrolite  An solution having pH = 13 is:  (a) Acidic (b) Basic (c) Neutral (d)

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	(a)	Linear	(b)	Tetrahedral			(c)	Cubic	(d)	Octagonal
72.	On p	assing CO <sub>2</sub> throu	gh Grigr	nard reagent:						
	(a)	Methanoic acid	d is form	ed		(b)	Ethan	dioic acid is	formed	
	(c)	Propanoic acid	is forme	ed		(d)	Glycro	ol is formed		
73.	The	double bonds ar	e preser	nt between the	atoms o	of the n	nolecule	<b>e</b> :		
	(a)	H <sub>2</sub> O	(b)	CO <sub>2</sub>		(c)	NH <sub>3</sub>		(d) (	CH₃Cl
74.	Nitro	ogen dioxide gas	is:							
	(a)	Reddish brown	n (	b) Reddish		(c)	Violet	6	(d)	
Dov	vnloa	aded More S	ample	Papers fro	<b>m:</b> <u>wv</u>	vw.en	trytest	<u>com</u>		
For	Onlii	ne Test Prep	aratio	n: www.thec	atonlir	ne.cor	<u>n</u>			
75.		total number of ne products is ca		ntering into a cl	hemical	reaction	on is eq	ual to the to	tal numbei	of atoms of
	(a)	Law of mass ac	ction	(b) Law of propor	multiple tions	e	(c)	Law of cons	servation o	f mass
76.	Acco	rding to Hund's r	ule elect	trons are distrib	outed an	nong si	ubshells	to give:		
	(a)	Minimum numb	er of un	paired electron	ı (b	) M	aximum	number of	unpaired e	lectron
	(c)	Normal number	of unpa	nired electron	(d	d) Ma	aximum	number of	paired elec	trons
77.	Mol	ecular reactions	have usu	ually:						
	(a)	Slow speed	(b)	Fast speed		(c)	Moder	ate speed	(d) 1	None
78.	A bor	nd formed by the	comple	te transference	of one	or mor	e electr	ons from on	e atom to	another is
	(a)	Electrovalent	(b)	Covalent bond	(c)	Co-or	dinate	covalent bor	nd (d)	Polar bond
79.	Bina	ry compounds o	f hydrog	en are called:						
	(a)	Halides	(b)	Hydrides		(c)		(	d)	

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80.	Deh	ydrohalogenation o	f alkyl l	nalide is ca	rried ou	ıt with:					
	(a)	Alcoholic KOH	(b)	Alcohol	ic NaOH	(	c) A	gOH	(d)	Aque	ous KOH
81.	1 ca	alorie is equal to:									
	(a)	393.8 Joules	(b)	4.184 Jo	ules	(c)	285.	8 Joule	(d)	10 <sup>-8</sup> J	oules
82.		ic acid is a:									
	(a)	Weak electrolyte	(b)	Strong e	electroly	te (c)	Non-	electrolyte	e (d)	Basic co	ompound
83.	Grigr	nard's reagent react	with a	lkyl halide	to form	ı:					
	(a)	Alkane	(1	b) A	lkene		(c)	Alkyne		(d)	None
Dov	vnlo	aded More Sa	mple	Papers	from:	www.e	ntryte	st.com			
For	Onli	ne Test Prepai	ratior	<b>1:</b> www.1	thecato	online.co	m				
84.		process in which or						r is called:			
	(a)	SP-hybridization			nybridiza		(c)		idization	(d)	None
					V.						
85.	•	oollution is caused b	•				•				
	(a)	Hydrocarbons	(b)	Fluoroc	arbons	(c	:) H	ydrogen	(d)	Dust Pa	rticles
86.	Isop	ropyl alcohol on ox	idation	forms:							
	(a)	Acetaldehyde		(b)	Ether	(c)	Ace	etone	(d)	Ether	none
07	Doro	offine are also called	K								
87.		affins are also called Alkyne	(b)	Alkano		(c)	Alkeı	26	(d)	Glysrid	۵¢
	(a)	Airylle	(D)	Alkane		(0)	AIREI	ie	(u)	Glysriu	cs .
88.	Liga	nds are:									
	(a)	Electron pair acce	ptors		(b)	Electron	pair d	onors		(c) 1	Neutral
89.	Amo	ng sigma bond and $\pi$	bond:								
	(a)	Sigma bond is strong		(b)	π bone	d is strong	er	(c) Bo	th are of e	equal stre	ngth
	1					J				•	-
90.	The	mass of electron is:									

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(a)

A)

A)

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(c)

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(d)

None

01	There will be increase in the hand energy of a covalent melecule because of:

electro negativity

 $9.1 \times 10^{-27} \text{ kg}$ 

(b)

 $1.6 \times 10^{-19} \text{ kg}$ 

**92.** If a system at equilibrium is disturbed by some change, the system will shift so as to counteract the effect of the change". This is the statement of

<b>A</b> )	The law of mass	B)	The law of thermodynamics
------------	-----------------	----	---------------------------

B)

NaClO<sub>3</sub>

D)

Na

 $9.1 \times 10^{-31} \text{ kg}$ 

**Polarity** 

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NaOH

C)

(a) 
$$H_2O_2$$
 (b)  $O_3$  (c)  $O_2$  gas (d)  $H_2$  gas





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100.

Which of the following elements metalloid?

- (a) Aluminum
- (b) Cobalt
- (c) Sodium
- (d) Tellurium

**101.** Compared to the first ionisation potential of an atom the second is:

- (a) Smaller
- (b) The same
- (c) Negligible
- (d) Greater

102. Iodine deficiency in diet is known to cause:

- (a) Goiter
- (b) Night blindness
- (c) Rickets
- (d) Beri-beri

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#### END OF CHEMISTRY SECTION

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#### **ENGLISH:**

#### Directions:

The following sentences contain problems in grammar, usage, diction (choice of words), and idiom.

#### Some sentences are correct.

No sentence contains more than one error. You will find that the error, if there is one, is underlined and lettered. Assume that all other elements of the sentence are correct and cannot be charged. In choosing answers, follow the requirements of standard written English. If there is an error, select the one underlined

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If there is no error, mark answer space E.

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part that must be changed in order to make the sentence correct, and blacken the corresponding space on the answer sheet.

		•					
							·O,
103.	Aired is one wh	<u>o</u> seems to like Heler	ո better <u>than </u> ւ	ıs, irregard	<u>less</u> of how much	we try to ple	ase him. <u>No error</u>
	Α		В	C D	3		E
104.	Statistics car	n be <u>cited</u> to prove	than prices th	nis year <u>ar</u>	<u>e</u> lower than <u>las</u>	t year. <u>No er</u>	ror
	А	В		С	D	E	
105.	She <u>angered</u> I	him beyond <u>measu</u>	<u>re</u> when she	said he wa	alks <u>like</u> his fathe	er does, slow	ly. <u>No error</u>
	Α	В	C		D		Е
106.	If the loser in t	he contest turns our to	o be <u>him</u> , <u>I shall</u>	<u>have had</u> h	ardly <u>no</u> opportun	ity to speak wi	th him. <u>No error</u>
			A B		С		D
Dow	nloaded M	ore Sample Pa	apers fron	1: www.	entrytest.com	1	
		Preparation:				-	
107.		t <u>leave</u> the book <u>lie</u>	on the floor	without to			ad better
	А	В			С	D	
pick i	t up immediate	ely. <u>No error</u>					
		E					
108.	Recause I ha	d scarcely <u>no</u> time	to lose Paula	along wi	th the fourteen	other memb	ners
100.	DCCause I IIa	A	B	i, along wi	C	<u>otrici</u> meme	1013
of th	o compositta o u			, rror	C		
or the	e committee, <u>w</u>	<u>vas</u> notified of our o					
		D	E				
<b>10</b> 9.	<u>Who</u> shall I bl	lame when <u>it's</u> time	e for the grou	p and <u>us</u> t	o make our rep	ort, and we	
	A	В		С			

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	D		E		
110.	Му <u>b</u>	rothers-in- <u>law's</u> storage facilities fa	r <u>exceed</u>	ls <u>ours</u> . N	lo error
	A	В	С	D	E
DIRE	<b>CTIO</b>	NS: Each of the following sentences	s is to be	e rephras	ed according to the directions that follow it.
You s	hould	make only those changes that the d	direction	s require	. Keep the meaning of the revised sentence
		the meaning of the original sentence			
us cio		the meaning of the original sentence	c as the	an ection	is for that sentence permit.
111.	Usin	g it wisely, leisure promotes health, eff	iciency, a	ınd happiı	ness.
	'	<u> </u>	•	В.	
	A.	Using it wisely		В.	If used wisely
	C.	Having used it wisely		D.	Because it is used wisely
	E.	Because of usefulness			
Dow	nloa	ded More Sample Papers f	from: <u>\</u>	www.er	atrytest.com
For C	nlin	e Test Prenaration: www.th	necator	oline co	

shall have to report that we re unprepared? No error

- The scouts were told to take an overnight hike, pitch camp, prepare dinner, and that they should be in bed by 112. 9 PM.
  - A. To take an overnight hike, pitch camp, prepare dinner, and that they should be in bed by 9 PM.
  - To take an overnight hike, pitch camp, prepare C. diver, and be in bed by 9 PM.
  - E. To engage in an overnight hike, pitch camp, prepare dinner, and that they should be in bed by 9 P.M.
- B. To take an overnights hike to pitch camp, prepare diner and that they should be in bed by 9 PM.
- To take an overnight hike, pitching camp, D. preparing dinner and going to bed by 9 p.m.
- 113. Her brothers along with her parents insist that she remain in school.
  - insist

Insists

Are insisting

D. Were insisting

- Have insisted
- Most students like to read these kind of books during their time.

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	_		_		
Α.	These	kind	Λf	hook	'C
л.	111030	NIII	O1	DOOR	S

C. This kind of book

E. Those kind of books

- B. These kind of book
- D. This kinds of books

#### **115.** She not only was competent but also friendly in nature.

A. She not only was competent but also friendly

C. She not only was competent but friendly also

E. She was not only competent but friendly also

B. Not only was she competent but friendly also

D. She was not only competent but also friendly

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- **116.** In the normal course of events. <u>Saleem will graduate high school and enter</u> college in two years.
  - A. Saleem will graduate high school and enter
  - C. Saleem will be graduated from high school and enter into
  - E. Saleem will have graduated high school and enter
- B. Saleem will graduate from high school and enter
- D. Saleem will be graduated from high school and enter into
- 117. With the exception of Fraz and I, everyone in the class finished the assignment before the bell rang.
  - A. Frank and I everyone in the class finished
- B. Fraz and me, everyone in the class finished
- C. Fraz and me, everyone in the class had finished
- D. Fraz and I, everyone in the class had finished
- E. Fraz and me everyone in the class finished
- 118. When one eats in this restaurant, you often find that the prices are high and that the food is poorly prepared.
  - A. When one eats n this restaurant, you often find
- B. When you eat n this restaurant, one often finds
- C. As you eat in this restaurant, you often find
- D. If you eat in this restaurant, you often find
- E. When one ate in this restaurant, he often found
- 119. It was decided by us that the emphasis would be placed on the result that might be attained.

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- A. It was decided by us that the emphasis would be placed on the results that might be attained.
- C. We decided to emphasize the results that might be attained.
- E. It was decided that we would place emphasis on the results that might be attained.
- B. We decided that the emphasis would be placed on the results that might be attained.
- D. We decided to emphasize the results we might attain
- **120.** Completing the physical examination, the tonsils were found to be diseased.
  - A. Completing the physical examination, the tonsils were found to be diseased.
  - C. When the physical examination was completed, the tonsils were found to be diseased.
  - E. The physical examination found that the tonsils were diseased.
- B. Having completed the physical examination the tonsils were found to be diseased.
- D. The physical examination completed, the tonsils were found to be diseased.

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- **121.** Today this is a totally different world than we have seen in the last decade,
  - A. Than we have seen.
  - C. From what we seen
  - E. Then we have seen

- B. From what we have seen
- D. Than what we seen
- 122. When one reads the poetry of the seventeenth century, you find a striking contrast between the philosophy of the cavalier poets such as suckling and the attitude of the Metaphysical poets such as Donne.
  - A. When one reads the poetry of the seventeenth century, you find
  - C. When one reads the poetry of the seventeenth century, he finds
  - E. As you read the poetry of the 17<sup>th</sup> century , one finds
- B. When one read the poetry of the seventeenth century, one finds
- D. If one reads the poetry of the 17<sup>th</sup> century , you find
- **123.** Anyone interested in the use of computers can learn much <u>if you have access to</u> state \_ of the art microcomputer.
  - A. if you have access to

B. if he was access to

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C. if access is available to

E. From access to

D. By access to

**124.** The reason I came late to class today is because the bus broke down.

A. I came late to class today is because

B. why I came late to class today is because

C. I was late to school today is because

D. That I was late to school today is because

E. I came late to class today is that

**125.** The process by which the community <u>influence the actions of its members</u> is known as social control.

A. influence the actions of its members

B. influences the actions of its members

C. had influenced the actions of its members

D. influences the actions of their members

E. will influence the actions of its members

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**126.** Abandon

A) Follow

B) Protect

C) Deliver

D) Arrive

**127.** Abridge

A) Augment

C) Encourage

B) Subdue

D) Elaborate

**128.** Abdicate

A) Seize

C) Crown

B) Speak Softly

D) Obey

**129.** Absolve

A) Free

C) Accuse

B) Plan

D) Cheat

**130.** Acrimonious

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- A) Bitter
- C) Plain

- B) Soothing
- D) Intelligent

- **131.** Abet
  - A) Aid
  - C) Incite

- B) Blockage
- D) Defy

- 132. Accumulate
  - A) Broad cast

B) Rally

C) Board

D) Congress

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#### **BIOLOGY**

**Directions:** For each question below you are given four choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER

#### ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.

- 133. Sum of all the genes/alleles found in all members of breeding population at a given time is
  - A) Genus

B) Gene

C) Gene pool

- D) Genome
- **134.** The shrinking of cytoplasm resulting from loss of water by osmosis in a cell placed in a hypertonic solution is
  - A) Plasmid

B) Plasmolysis

C) Plastid

- D) None
- 135. The stage of mitosis during which the chromosomes uncoil, the spindles and esters disappear and the nuclear membrane reforms is
  - A Prophase

B) Telophase

C Anaphase

D) Inter phase

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**136.** All chordates show the

A) Stiff rod like notochord

B) Gill slits, a set of opening in pharyngeal

region

C) Hollow dorsal central nervous system

D) All of above

**137.** Sulfuric acid mist when inhaled can damage

A) Lungs

B) Heart

C) Digestive tract

D) All of above

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**138.** An animal which captures & readily kill live animals for its food is called

A) Prey

B) Predator

C) Plasmid

D) Transgenic animal

**139.** The best known solvent is

A) Ether

B) Methyl alcohol

C) Water

D) Alcohol

**140.** The consumers are the herbivores that feed directly on green plants are

A) Secondary consumers

B) Primary consumers

C) Tar consumers

D) None

**141.** Persons have a difficulty is distinguish from red to green is

A) Color blindness

B) Hemophilic

C) Thalacemia

D) None of above

**142.** The trait that is controlled by a gene found on the X-chromosome called

A) Sex-linked trait

B) X-linked trait

C) Y-linked trail

D) All of above

**143.** The pair of autosomes in human beings are

A) 22

B) 23

C) 21

D) 24

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144.	Sal A)	liva contains an enzyme which hydrolysis starch & Pepsin	glycog B)	gen into maltose Amylase
	C)	Lipase	D)	All of above
145.	In h	erbivore, there is a large & store house of bacteria	a whic B)	h breakdown cellulose wall of plant cell i Caecum
	C)	Colon	D)	Stomach
146.	The	small intestine of man divided into		
	A)	Duodenum, Jejunum and ileum	B)	Duodenum and ileum
	C)	Duodenum & Jejunum	D)	Only duodenum
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147.	Sim	ple digestive cavity of hydra having a open opening	g is	
	A)	Archenterone	B)	Coelenteron
	C)	Blestocoel	D)	None
148.	N/	letatherians mammals include		
140.	A		В)	Whole, elephant and horse
	C		D)	·
149.	1+ l	nas been proposed that muscles have been fatigue	d by +	he accumulation of
143.	A)	Acetic acid	B)	Lactic acid
	C)	Citric acid	D)	Iron
150				O manusaful is
150.	A	ne only muscle that causes extension at elbow is the Biceps brachii	ne big B)	•
	C,	Connective tissues	D)	Tendons
151.	Th	e enzyme which is used to cuts down the viral DNA	Δic	
1		Coenzyme Coenzyme	B)	Holoenzyme
	C)	Restriction enzyme	D)	None of above
152.	Th	e endangered species in Pakistan are		

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Crocodile & Asian lion

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	A)	bustard	В)	Crocodile & Asian ilon
	C)	Fox and Owl	D)	None of above
153.	ln į	olanaria have a simple tubular excretory systen	n is	
	A)	Meta mephridium	В)	Protonephridium
	C)	Mephrostome	D)	None of above
154.	The	ions to balance the ph value of filtrate passing	through t	the tubule is
	A)	Potassium ions	B)	Na ions
	C)	H-ions	D)	Ct ions
155.	Men	nbrane bound the vacuole is called		
	A)	Tonoplast	В)	Chromoplast
	C)	Leucoplast	D)	None

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Black buck, common leonard & houbara

- 156. The structure that is long, cylindrical and may exists as solid bundles in xylem or as bundle caps is
  - A) Trachea

B) Tracheids

C) Sclereides

- D) None
- **157.** The shedding of exoskeleton periodically in arthropods is called
  - A) Ecdysome

3) Ecdysis

C) Analysis

D) None

**158.** Bone forming cells are called

A) Osteoblasts

B) Osteocytes

C) Osteoclasts

D) All of above

**159.** The cranium consists of

A) 6 bones

B) 8 bones

C) 3 bones

D) 10 bones

**160.** This filaments twisting around the actin chains are 2-strands of another protein called

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- A) Tropomyosin B) Myosin
- C) Actin D) All of above
- **161.** The region of a myofibril b/w two successive-lines is
  - A) Sarcolemma
  - C) Sarcoplasm

B) Sarcomere

All of above

- **162.** Energy for muscle contraction is provided by
  - A) ADP
  - C) GTP

B) ATP

D)

D) CTP

- **163.** Cardiac muscles are
  - A) Involuntary

B) Voluntary

C) Both of above

D) None of above

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- **164.** Which of the following is not digitigrades
  - A) Man

B) Apes

C) Bear

- D) None of above
- 165. Many plants take on a yellowish when they fail to form a sufficient chrophyll, this condition is called
  - A) Chlorosis

B) Etiolated

C) Both of a & b

- D) None of above
- **166.** Leaf growth and fruit growth is initiated by a hormone called
  - A) Auxins

B) Gibberellins

C) Cytokines

- D) A Abscisic acid
- **167.** The electrical potential that exists cross a cell membrane is called
  - A) Resting membrane potential

B) Membrane potential

C) Action potential

D) All of above

- **168.** Gonadophrophic hormones in clued
  - A) FSH & LH

B) GH & ACTH

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			_	
	C)	STH	D)	MSH
169.	Dial	petes insipidus is produced by the reduction of secre	etion	of
	A)	Oxytocin	В)	ADH
	•	•	•	
	C)	ACTH	D)	GH
170	C	use dispesse is and dured by		
170.		ves diseases is produced by	D)	Evenes thurswing
	A)	Reduced thyroxine	B)	Excess thyroxine
	C)	Medium amount of thyroxine	D)	None of above
<b>17</b> : T	he t	umors that divide more rapidly & invade more surro		
	A)	Binging tumor	B)	Malignant tumor
	C)	Both	D)	None
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172.	The	effected individuals having one missing X-chromoso	ome v	with only 45 chromosomes is called
	A)	Down's syndrome	B)	Turner's syndrome
	C)	Klinefelter's syndromes	D)	None of above
	<b>C</b> )	Killeretter 3 Syridromes		Notice of above
173.	Dif	ferent alleles of a gene that are both expressed in a	hete	rozygous condition are called
175.	A)	Dominant	B)	Recessive
	•		•	
	C)	Co-dominant	D)	Multiple allele
174.	ı	Free living organisms in the environment that have I	had a	foreign gene stably inserted into them &
1/7.		this gene can be passed on to successive generation		
		A) Transgenic animals	B)	
			•	
	(	C) Envitro fertilization	D)	None
175.		A biotic components include	Β\	A
		A) Plants	B)	Animals
		C) Air, water and soil	D)	Herbivores
176.		All the food chains & food webs begin with a		
		A) Producers	В	s) Consumers

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		C)	2ndary consumer		D)	None
177.	Oui A)	-	ncipal source of energy is clear energy	В)	Sc	olar energy
	C)	Ato	omic energy	D)	N	one of above
178.		Thro	ee nucleotide sequence in the TRNA is called Cordon		B)	Anti cordon
		C)	Initial cordon		D)	None
179.	Wh A)	_	gas of the atmosphere behaves like a glass sheet rogen gas	t of B)	_	en house 2 gas
	C)	Car	bon dioxide	D)	Pł	nosphorus
180.		ich c	of the substance is not harmful or polluted for o	ur e B)		onment arbon monoxide
	C)	Lar	d compound	D)	N	one
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181.	Ozo A)		molecule is made up of xygen molecule	В)	2-	oxygen molecule
	C)	3-0	xygen molecule	D)	N	one
182.		al co 64	don for amino acids are	B)	63	3
	C)	60		D)	61	1
183.	The	e inte	er-medial host of Taenia is			
	A)	Pig		B)	M	lan
	C)	Hoi	se	D)	Sł	neep
184.		The c	ondition in which blood fails to clot is called			
		A) (	Colorblindness		B)	Thalacemia
		C) I	Haemophilia		D)	None

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185. T.H Morgan gave the final proof that gene are located on the

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	A)	Alleles	B)	Chromosomes
	C)	DNA	D)	RNA
186.	Pres	sence of a alleles Tt, its phenotype is		
	A)	Dwarf	B)	Tall
	C)	Medium	D)	None
187.	The	unit of hereditary material that develops a trait is		
	A)	Chromosome	B)	Genes
	C)	Allele	D)	None
188.	Whi	ich of the following is a yellowish structure secretes a progest	erone	is
	A)	Graffian follicle	В)	Corpus leuteum
	C)	Follicle	D)	00cyte
Dow	nlo	paded More Sample Papers from: www.	enti	rytest com
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189.		At the time of birth, the baby is still attached to the materna	l uter	us through the
		A) Spinal cord		B) Umbilical cord
		C) Chorion		D) None
190.	In ur	nicellular organisms, mostly reproduction takes place by		
150.	A)	Asexual	B)	Sexual
	C)	By spores	, D)	All of above
	,	V)	•	
191.	Wh	ich of the following provide the fluid medium to embryo		
	A)	Allantoise	B)	Chorion

**193.** The inheritance of skin color is a case of polygenic inheritance is controlled by

A) 6 pairs of genes

Amnion

**192.** The connection b/w the fetus & mother by A) Through connective tissues

By the wall of uterus

B) 8 pairs of gene

By placenta

None of above

None

C) 10 pairs

C)

D) 4 pairs

D)

B)

D)

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- 194. The excellent example of multiple allele is
  - A) ABO blood groups
  - C) Hemophilia
- 195. Larvae of frog is known as
  - A) Vegetal pole
  - C) Animal pole
- 196. Existing structures are lost, this types of changes are called
  - A) Progressive
  - C) Modificational
- 197. Which of the following parasite is also called hook worm
  - A) Entamoeba histolytica
  - C) Ancylostoma duodenale

- B) Thalacemia
- D) None
- B) Tad pole
- D) None
- B) Retrogressive
- D) None
- B) Fasciola hepatica
- D) Taenia

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- 198. If parents have a blood groups A and B, then their children have blood groups
  - A) A,B and AB
  - C) Only A

- B) Only A & B
- D) O blood group

Protonephrida

None

- **199.** In earthworm, the tubular excretory system is
  - A) Metanephridia
  - C) Mesonephridia
- 200. How many types of neurons
  - A) 2
  - C) 4

B)

D)

B)

- D) 5
- 201. Which of the following carry pulses towards cell body is
  - A) Dendron
  - C) Cell body

- B) Axon
- D) Schwann cell

- 202. Mylinated sheath is made by
  - A) Schwann cells

B) Epithelium

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C) Connective tissues D) None

203. Cerebellum is present in

For brain

B)

Hindbrain

D) Spinal cord

Midbrain

204. In prokaryotes, the newly synthesized mRNA is released in

Nucleus

B) Mitochondria

Only cytokines

C) Cytoplasm D) None

205. Mitosis is divided in to

A) Cytokines & karyokines

B)

C) Only karyokines

None D)

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206. O-blood groups individuals are called

Universal donors

Universal acceptor

Both a & b

None

A hormone released by parathyroid gland is called 207.

Paratharmone

Thyroxine

Growth hormone

D) Oxytocin

Plant disease may be due to 209.

- Bacillus thuringiensis Α.
- Rhizobium species
- Beneficial insects
- Aphids
- None of the above

Absisc acid cause

A. Inhibits dormancy

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B.	Promotes	bud	dormanc
В.	Promotes	buu	dormanc

- C. Inhibits abscission
- D. All of above
- E. None

#### **211.** Ethene cause

- A. Promotes bud dormancy
- B. Inhibit fruit ripening
- C. Both a & b
- D. None

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- **212.** Parthenogenesis is
  - A. Reproduction fo aphids
  - B. Sexual reproduction
  - C. Asexual reproduction
  - D. Both A & C
  - E. None
- 213. In human beings body cell the reproduction is
  - A. Sexual
  - B. Asexual
  - C. Both A & B
  - D. None
- Red light promotes
  - A. Leaf rolling
  - B. Hooking of plumule

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- C. Inhibit flowering in long day plants
- D. Inhibit flowering in short day plants
- E. None
- **215.** Sexual reproduction cause
  - A. More of springs
  - B. Fast insurgence
  - C. Less rapid increase in number
  - D. All of above

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- **216.** Gonorrhoa is caused by
  - A. Gram negative bacteria
  - B. Bacteria
  - C. Treponema pallidium
  - D. Both B & C
  - E. None
- 217. In higher plants the growth is limited to
  - A. Growing seasons
  - B. Growing points
  - C. Growing injury
  - D. None
- play an important role in primary growth
  - A. Interclary meristems
  - B. Lateral meri stems
  - C. Apical meri stems

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D. none

**219.** play important role in leaves production

A. Apical meristems

B. Interclary meristem

C. Literal meristem

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**220.** Internal factors include

A. Oxygen

B. CO<sub>2</sub>

C. HCI

D. Indole Acetic Acid

E. Phosphoric Acid

**END OF BIOLOGY SECTION** 

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