

correct?

TEA MEDICAL 2018

0.0	recardants in a manatero	7,777,77		Chry All all and American		
	(a) Always change to pr			(b) All charged parti	cles move with the	same
	(b) Return back to reac			velocity.		
		ints or proceeds to form		(c) All electric field I	ines are directed to	wards
	products			positive charges	1.	
	(d) Are of low energy		100	(d) All electric field l		
2)	Out of the following ind	icate the stitching items for	12)	During the formatio	n of aqueous soluti	on of any
	PUPPIES.			electrolyte:		
	(a) School	(b) Litter	l	(a) Heat is evolved		
	(c) Covey (d) G	roup		(b) Heat is absorb		
3)	Tornaria larva reservat			(c) Heat may evolve	d or absorbed	(d)
	(a) Bipinnaria larva	(b) Trochopore lary		Electrolyte do not di	issolve in water	
	(c) Glochidium larva		13)	The compound with	more than 10% so	lubility in
4)	Taxus baccata is the bot		1	pure water is:		
	(a) Fever tree	(b) Deadly nightshade	1	(a) MgCO ₃	(b) Al ₂ (CO ₃)	3
	(c) English Yew (d) D			(c) K ₂ CO ₃	(d) ZnCO ₁	
5)		elong to which group of	14)	The mass of NaOH n	eeded to prepare 0	2 molar
79)	organisms:	crowle to timen Brank as		solution in 500g pur		
	(a) Angiosperms	(b) Sponges		(a) 0.4g	(b) 4.0g	(c) 1.5
		(d) Fungus like protests		(d) 1.0g		6-9
6)		launched projectile takes	15)	Choose the related v	vord for Rot on the	analogy o
9	12.5 a to return to its st	The state of the s	2000	elephant: Stride.		
		num height of 170m. The		(a) Scamper	(b) Loiter	
				(c) Whimper	(d) Gallop	
		atmosphere. What is the	16)	Baroceptors are the		consible
	acceleration of free fail	The state of the s	100	for determination of		aponomic.
	(a) 2.2 m.s ⁻²	(b) 8.7 m.s ⁻²		(a) Blood Glucose (b		(c) Blo
77	(c) 27 m.s-2	- 1、美型素がなりの調整では) Blood flow	(c) bio
7)	The lionization potentia		17)	Which one of the fol	The state of the s	whit anima
		occeleration of free fall on	111	(a) Buffalo	(b) Mule	ague anuna
	this orbit?	as because		The second secon	Fig. (1) 10 (1) 10 (1) 10 (1) 10 (1)	
	(a) -10.2 Ev	(b) -3.40 Ev	101	(c) Elephant	(d) Yak	a market by the Mark
-	(c) +3.40 eV		18)	Which of the followi		sea wate
8)		kg. He ties himself to one		(a) Myxine	(b) Skates	
		es over a single fixed pulley.	103	(c) Sharks	(d) Teleost	
		nd of the rope to lift himself	19)	Which one of the fol	A STATE OF THE PARTY OF THE PAR	
		of 50cms 1. What is the	P/Γ) Honey bee	(c)
	average useful power at		204	tale force rises, trace, and promotions with) Wasp	-
	(a) 40W	(b) 0.39 kW	20)	A condition called G		aused by;
	(c) 4.0 kW	(d) 39 kW		(a) Overcooled body		
9)	Compound in which add	dition takes plats through		(c) Environmental		ollution
	markovnikov's rule is:		21)	Two wave sources a		
	(a) $CH_3 - CH = CH - CH_3$	(b) CH ₃ -		source produces a w	ave of wavelength	λ. The two
	$C(CH_3) = CH - CH_3$	***************************************		waves from the sour	ces meet at point a	with a
	(c) C_2H_4 $CH = CH - CH_3$	(d) CH ₃ -		phase difference of 9	90°. What is a possi	ble
	$CH = CH - C_2H_4$	(-)		difference in the dist	tances from the two	o wave
10)		will a testes shield against		sources to point x?		
	x-rays?	The state of the s		(a) \(\lambda/\)8	(b) $\lambda/4$	
	(a) Ordinary water	(b) Heavy water		(c) \(\lambda\).	(d) \(\lambda\)	
	(c) Lead	(d) Aluminum	22)	The activity of a cert		rned by th
11)	In a uniform electric fie		224	relation $\frac{\Delta N}{2\pi} = -\lambda N$ wh		
,	and a difficulty the fire	of amen ameninences	1	relation = -AN WI	incre v = 7.4 × 10.07	what is

(a) All charged particles experience the same force b) All charged particles move with the same elocity. c) All electric field lines are directed towards ositive charges d) All electric field lines are parallels. During the formation of aqueous solution of any lectrolyte: a) Heat is evolved (b) Heat is absorbed c) Heat may evolved or absorbed (d) lectrolyte do not dissolve in water he compound with more than 10% solubility in ure water is: a) MgCO₃ (b) Al₂ (CO₃)₃ (c) K2CO3 (d) ZnCO₂ he mass of NaOH needed to prepare 0.2 molar olution in 500g pure water at 4°C is: a) 0.4g (b) 4.0g (c) 1.5g (d) 1.0g hoose the related word for Rot on the analogy of lephant: Stride. a) Scamper (b) Loiter (c) Whimper (d) Gallop aroceptors are the sensors in body responsible or determination of: a) Blood Glucose (b) Blo0od Ammonia (c) Blood (d) Blood flow Which one of the following is not a draught animal? a) Buffalo (b) Mule (c) Elephant (d) Yak Which of the following is not isotonic to sea water? a) Myxine (b) Skates (c) Sharks (d) Teleost Which one of the following is not an insect? (b) Honey bee (d) Wasp condition called Goose simples, are caused by; a) Overcooled body (b) Bacteria (c) Environmental changes (d) Pollution wo wave sources are oscillating in phase. Each ource produces a wave of wavelength \(\lambda\). The two vaves from the sources meet at point x with a hase difference of 90°. What is a possible ifference in the distances from the two wave ources to point x? a) \(\lambda/8\) (b) \lambda/4 (d) \(\lambda\) he activity of a certain nuclide is governed by the

the half-life of the nuclide?



(a) 2.9×10^7 s

(b) $1.3 \times 10^7 \text{s}$

(c) 1.2×10^{-8} s

- (d) 3.4 × 10-0 s
- Four resistors are connected in a square as shown

2Ω	Λ 4Ω
The resist	Bsured between any two
junctions. 80	two junctions is the
measured	×6Ω est?
(a) Pand 5	(b) Q and S

- (c) R and S
- The elevation in boiling point ΔT_b is equal to ebullioscopy constant Kb when the Molarity (M) of the solution is:

(a) 0.1m

(b) 1.0m

(d) S and P

(c) 10.0m

- (d) Statement is wrong
- $ON^- + C_2H_5 1 C_2H_3 OH + 1$ One of the specie in the above reaction is a substrate. It is

(a) OH-

(b) CH₂ - CH₂ - OH

(c) I-

- (d) CH₃ CH₂ L
- The process that can both be endothermic and exothermic out of the following is:

(a) Formation

(b) Crystallization

(c) Bond breaking

- (d) condensation
- The amine which is more reactive towards ill is: (a) Diethyl methyl amine (b)

dimethyl amine

(c) Methyl propyl amine amine

- (d) Butyl
- 28) He said, "What is the matter"?

[Choose the correct indirect speech:]

- (a) He said what the matter was
 - (b) He asked what the matter was
- (c) He enquired that what was the matter (d) He asked that what the matter had been
- 29) The number of Hyold bone in human skill region is:

(a) 1 (c) 22 (b) 6 (d) 206

- Which factor is not involved in release of Oxytocin 30) in females:
 - (a) Stretching of uterus
 - (b) Stretching of Cervix
 - (c) Low level of testosterone
 - (d) Low level of progesterone
- 31) Chymotrypsin acts upon:
 - (a) Starch in duodenum
 - (b) Proteins in stomach
 - (c) Proteins in duodenum in acidic medium
 - (d) Proteins in duodenum in alkaline medium
- Which of the following series lie in the visible region?

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(a) Lyman

(b) Paschen

(c) Balmer

- (d) Pfund
- Two springs of spring constant K1 and K2 are arranged in parallel and a body of mass m is attached to it then calculate the time period of the

To determine the resistance of a voltmeter by discharging a capacitor through it, the instantaneous voltage is then given by the relation: (a) Voe -t/RC

(b) V.et/AC

(d) V₀/√2 (c) Vo/2

35) When we are measuring the internal resistance of a cell by potentiometer, the cmf of the battery must be greater than the:

(a) emf of the cell (b) P.D in the circuit Current in the cell(d) Current in the circuit

Upon hydrolysis compound "x" in the presence of NaOH we get C2H2OH.

And
$$CH_3 - C - O^- Na^+$$
. Compound "X" is:

(a) $C_2H_3 - CH_2 - OH$ (b) $CH_3 - C - OH$

(c) CH3-C-0-C2H3 (d) C2H3-C-0-CH3

The compound which you think is not the derivative of acetic acid is:

(a) CH₃-C-Cl

(b) CH₃-CO-O-CO-CH₃

- (c) CH₁-C-NH₂ (d) None of the above
- 38) The reducing agent in the reaction given, KMnO4 + $KI + H_2SO_4 \rightarrow MnSO_4 + K_2SO_4 + I_2 + H_2O$ is: (a) KMnO₄

(c) H₂SO₄

(b) KI

- (d) Kl and H2SO4 both
- 39)Don't poke your nose __ my affairs. (b) on (a) in

(c) into

(d) by

A vein differs from an artery in having:

(a) Strong muscular walls

(b)

- Narrow lumen
- (c) Valves control direction of blood flow opposite
- (d) Valves control direction of blood flow towards heart
- 41) Expiratory centre in medulla is:



	(a) Dorsal	(b) Ventral	(c)
	Lower part	(d) All of t	he above
42)	Polyploidy is n	nore common in:	
	(a) Plants	(b) Animals	(c)
	Bacteria	(d) Virus	

- Whenever nitrite group is hydrolyzed (dil HCl) with water it always produces:
 - (a) Alcohol (c) Amines

(b) Carboxylic acid (d) Amides

- A person who leaves his country and settles in another country is called: (b) Immigrant (c) (a) Emigrant Migrant (d) Aborigine
- The center of porphyries in the head region of hemoglobin is occupied by: (a) Potassium (b) Sodium

(c) Magnesium (d) Iron

Syphilis is caused by:

(a) Treponema palladium (b) Helicobacter spp (c) (d) Bactericides spp Neisseria spp

The organism developed with two heads and one trunk is called:

(a) Identical twins

(b) Dizygotic twins

(c) Fraternal twins (d) Siamese twins

48) The paratrooper of mass 80Kg descends vertically at a constant velocity of 3 ms-1 taking the acceleration of free fall as 10ms-2. Find out what is the net force acting on him?

(a) Zero

(b) 8.00 N upward

- (c) 8.00 N downward (d) 240 N downward The dimensional formula for change in momentum
- is same as that for: (a) Force (b) Impulse

(c) Acceleration (d) Velocity

What is NOT true of 2 forces that give rise to a couple?

(a) They act in opposite directions

(b) They both act at the same point

(c) They both act on the same body

(d) They both have the same magnitude

51) The stress-strain graph for a metal is shown.

What is the train energy per unit volum 0.005 0.010

e of a rod made from this metal when the strain of the rod is 0.0107

(a) 10 kJ m⁻³ (c) 1.0 MI m-2

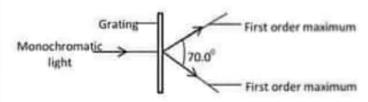
(b) 100 kl m⁻³ (d) 10 MJ m-3

52) A diffraction grating is used to measure the

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wavelength of monochromatic light, as shown in the diagram.



The spacing of the slits in the grating is 1.00×10^{-1} 6m. The angle between the first order diffraction maxims is 60.0°. What is the wavelength of the light?

(a) 287 nm

(b) 570 nm

(c) 574 nm

(d) 940 nm

53) The cation that distort the electron cloud of NO₃ ion more and facilitates its decomposition is: (b) Mg**

(a) Li* (c) Ci+

(d) Be++

54) The energy of electron in the first excited state of Hydrogen atom in I/atom is:

(a) 2.8 × 10-18

(b) 0.545 × 10-18

(c) -2.18 × 10-18

(d) -1312.36

Unhybrid "p" orbitals on linear overlap:

(a) Always form Pi(π) bond

(b) Always form "a" nor "n" bond

(c) Neither form "a" nor "n" bond (d) Form more reactive and more unstable "n" bond

56) It's raining cats and dogs. So there are the road today.

(a) Few

(b) a Few

(c) a big number of

(d) a great deal of

He said to me, "traitor".

[Choose the correct indirect speech:]

(a) He said to me that I was a traitor (b) He told me that I have been a traitor.

(c) He called me a traitor

exclaimed with anger that I was a traitor.

58) The stage of plasmodium life cycle not related to human body is:

(a) Merozoite

(b) Ooikinetes (c)

(d) He

(d) Gametozoites Trophozoites

In protein synthesis the initiator tRNA carrying amino acid methionine lard on which site of ribosome:

(a) Esite

(b) P site

(c) A site

(d) C site

60) Goblets cells are:

(a) Unicellular exocrine gland

(b) Unicellular endocrine glands

(c) Multicellular exocrine gland

(d) Multicellular endocrine glands

61) The instantaneous current in a circuit is given by I



= $\sqrt{2} \sin(wt + \emptyset)$ ampere what is the rms value of the current?

(a) 2 A

(c) 1 A

Which list shows electromagnetic waves in order of 62) increasing frequency?

(a) Radio waves → gamma rays → ultraviolet → infrared

(b) Radio waves → infrared → ultraviolet → gamma rays

(c) Ultraviolet → gamma rays → radio waves →

(d) Ultraviolet → infrared → radio waves → gamma rays

What is the momentum of X-rays having 63) wavelength 0.001nm?

(a) 6.63×10^{-22} kg m s⁻¹

(b) 6.63 × 10-27 kg m s-1

(c) 6.63 × 10-31 kg m s-1

(d) 6.63 × 10-34 kg m s-1

Henderson-Hasselbalch equation is used to calculate the p" of a buffer solutions. The correct representation of the equation is: (a) $p^k a - \log \frac{|Salt|}{|Acid|}$ (b) $p^k a \times \log \frac{|Acid|}{|Salt|}$

 $\log \frac{|Sutt|}{|Acid|}$ (d) $p^{ij}a + \log \frac{|Sutt|}{|Acid|}$

(c) Ka+

If the p" of the solution is 9 its OH+ ions concentration is:

(a) 10-5

(b) 5

(c) 10-9

(d) 9

The first stage in development of Xerosere is appearance of:

(a) Foliose lichens

(b) Crustose lichens

(c) Fruticose lichens

(d) Climax stage

Mg** and Ca** are excreted in fishes through: 67)

(a) Kidney

(b) Gills

(c) Skin

(d) All of the above 68) Vomit centre is located in:

(a) Pons

(b) Mid brain

(c) Cerebellum (d) Medulla

There are two charges +3µC and +8µC the ratio of the force acting on them will be:

(a) 3:1

(b) 1:1

(c) 11:8

(d) 3:8

70) Two radioactive samples S1 and S2 have half-lives 3 hours and 7 hours respectively. If they have the same activity at certain instant t, what is the ratio of the number of atoms of S1 to S2 at instant t? (a) 9:49 (b) 49:9

(c) 3:7

(d) 7:3

The reciprocal of the conductance is called:

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(a) Conductivity

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(b) Resistivity

(c) Resistance

(d) Inductance

72) The volume of CO2 produced by heating 33.5g Li₂CO₅ at room temperature and pressure is (Mr. $Li_2CO_3 = 67g/mol$):

(a) 22.4 dm³

(b) 12.0 dm3

(c) 11.2 dm3

(d) 24.0 dm3

73) The equation used to describe the behavior of ideal gases under standard conditions is:

(a) PV = nRT

(b) PM = dRT

(c) PVM = mRT (d) All of the above The nuclei you think is invisible in NMR spectroscopy is:

(a) N14

(b) P31

(c) Cl15

(d) C13

75) To the letter' means:

(a) Cursory

(b) Enveloping a letter

(c) Precisely

(d) Reporting a problem

We have three test tubes having aqueous solutions 76) of Ca(NO₃)₂, Ba(NO₃)₂ and K₂CO₃ respectively. On addition of dil H2SO4. Which test tube solution turns milky?

(a) Ca(NO₃)₂ solution

(b) Ba(NO₃)₂ solution (c)

(d) All turned milky K2CO2 solution

The teacher said, "Amna, watch your steps". [Choose the correct indirect speech:]

> (a) The teacher ordered Amna that She should watch her steps.

(b) The teacher ordered Amna to watch your steps.

(c) The teacher ordered Amna to watch her steps.

(d) The teacher requested Amna to watch your

78) Which one of the following is a shrub?

(a) Parmelia

(b) Aster

(c) Rhus

(d) Banana

In nitrogen fixing bacteria, the nitrogenase complex is sensitive to:

(a) O₂

(b) CO2

(c) NO₂

(d) NO₃

80) Over eating psychological disorder is called: (a) Dyspepsia (b) Septecemia (c) Anorexia (d) Bulimia

81) Two railway trucks of masses m and 3m move towards each other in opposite directions with speeds 2v and v respectively. These trucks collide and stick together. What is the speed of the trucks after the collision?

(a) v/4

(b) v/2

(c) v

(d) 5v/4

82) A thin horizontal plate of area 0.036 m2 is beneath the surface of a liquid of density 930 kg m3. The force on one side of the plate due to the pressure of the liquid is 290 N. What is the depth of the plate



beneath the surface of the liquid?

(a) 0.88 m

(b) 1.1 m

(c) 1.8 m

(d) 8.7 m

- An electron and a proton enter a magnetic field with equal velocities which one of them experiences more force:
 - (a) Electron

(b) Proton

- (c) Both experience same force(d) Cannot be predicted
- The chelating ligand out of the following is:

(a) CH₃COO-

(b) (CH₂)₂ (NH₂)₂

(c) SCN-

(d) NO 2

85) The speed v of a liquid a tube depends on the change in pressure ΔP and the density p of the liquid. The speed is given by the equation.

$$v = k \left(\frac{\Delta P}{\rho}\right)^n$$

Where k is a constant that has no units. What is the value of n?

(a) 1/2

(b) 1

(c) 3/2

(d) 2

The oxidation state of platinum in [Pt (NH3)4 86) (NO₂)CI] SO₄ is:

(a) III

(b) II

(c) 0

(d) IV

The outer electronic configuration of Cu+ ion is 4S93d10 with this configuration the aqueous solution of copper (1) compound is:

(b) Greenish blue

(c) bluish green (d) Colourless

For the reaction.

 $CO(g) + \frac{1}{2}O_{2(g)} \rightarrow CO_{2(g)}$

(a) Kp > Kc

(b) Kp < K

(c) $K_p = K_p$

(d) K_b ≥ K_s

Which way shall we go?

(The underlined word is)

(a) Demonstrative adjective (b) Interrogative pronoun

(c) Interrogative adjective

(d) Exclamatory adjective

90) An autoimmune disorders in which stiffness and information of vertebrae occurs is called as:

(a) Lupus

(b) Scleroderma

Ankylosis spondylitis (d) Juvenile dermatomyositis

91) The study of fishes is:

(a) Ornithology

(b) Ichthyology (c)

(d) Herpetology Herpetology

Which of the following is absent in C4 plants:

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93)

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(a) Calvin cycle

(b) Bundle sheath cells

(c) Pepco

(d) CO2 Fixation in Mesophyll Cyclic alkanes with greater angle strain are always:

(a) More stable

(b) Less energetic

(c) More reactive

(d) Obey the general formula of normal alkanes

94) Which one of the following is opposite in meaning to the word SYMPATHY?

(a) Apathy

(b) Pathos

(c) Empathy

(d) Jealousy

Piriformis syndrome is associated with which of 95) the following disorder:

(a) Arthritis

(b) Sciatica

(c) Spondylosis (d) Disc slip

96) Which one of the following is not an exclusive trait of arthropoda?

(a) Presence of wings

(b) Jointed appendages

(c) Haemocoel

(d) Chitinous exoskeleton

971 Locomotary organ in leech is called.

(a) Setae

(b) Chatae

(c) Parapodia

(d) None of the above

981 The power loss p in a resistor is calculated using the formula.

$$R = \frac{V^2}{R}$$

The uncertainty in the potential difference V is 3% and the uncertainty in the resistance R is 2%. What is the uncertainty in P?

(a) 4%

(b) 7%

(c) 8%

(d) 11%

A quantity x is to be determined from the equation. X = P - Q. P is measured as (1.27 ± 0.02) m and Q is measured as (0.83 ± 0.01) m. What is the percentage uncertainty in z to one significant figure?

(a) 0:4%

(b) 2%

(c) 396

(d) 2%

100) The number of electrons in one coulomb of charge

(a) 6.25 × 10²²

(b) 1.6 × 1020

- (c) 6.25 × 1020
- (d) 9.1 × 10³³
- 101) Students were decomposing CaCO₂ placed in a China dish by heating using burner in the laboratory. The "system" in this experiment is: (a) China dish (b) Burner

(c) Laboratory

(d) CaCO₂

102) Male having Downs syndrome have sex chromosomes:

(a) XXY (c) XYY

(b) XY (d) XYYY

103) Darwins finches are found in:

(a) New Zealand

(b) New Guinae (c)

Galapagos Island (d) Australia



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104)	Which of the f important pla	ollowing is the most economically				
	(a) Poaches	(b) Asteraceae				
	(c) Rosacea					
105)	the second secon	monic Motion this acceleration of the				
103)						
	particle in zer					
	(a) Velocity is					
	A STATE OF THE PARTY OF THE PAR	ment is zero				
	The second secon	ity and displacement are zero				
		ocity and displacement are maximum				
106)		le phone of 5.0 V and an internal				
	resistance of 200 mΩ.					
		rminal P.D of the battery when it				
		rent of 500 mA?				
	(a) 4.8 V	(b) 4.9 V				
	(c) 5.0 V	(d) 5.1 V				
107)		ation of up (u) and down (d) quarks				
	forms a neutr	on?				
	(a) uuu	(b) u u d				
	(c) u d d	(d) d d				
108)	Speed with di	pole moment equal to zero is:				
	(a) AlCla	(b) CH ₄ (c) 1.4 -				
	Dibromobenz	ene (d) All of the above				
109)		causes SN-reaction in alkylhalides.				
		e following alkyl-halides KOH _{as}				
	would like to attack easily.					
		-CI (b) CH ₃ - CH ₂ - Br (c) CH ₃ -				
	CH2 - F (d)					
110)	Three reaction					
		$IF \rightarrow F_2 + SO_2 + 2H_1O$				
	II. $H_2SO_4 + 2HBr \rightarrow Br_2 + SO_2 + 2H_2O$					
	III. $H_2SO_4 + BHI \rightarrow Al_2 + H_2S + 4H_2O$					
		reducing agent in these reactions is:				
	(a) HI	(b) HF				
	The second secon					
****	(c) HBr	(d) All of the above				
111)	The number of gram atoms in 3g Hydrogen atoms is the same at the number of gram atoms in 48g of:					
	(a) N	(b) C				
	(c) O	(d) O ₂				
112)						
	element the x - rays spectrum consists of three					
	spectral lines i.e. K _a K ₀ L _a :					
	(a) Na	(b) Boron				
	(c) K	(d) Ca				
113)	The state of the s	y oxide that reacts with:				
	(a) HClaq	(b) КОН _{ац}				
-1	(c) Stream	(d) SO ₃				
114)	I am afraid we	have not got sugar for making				
	tea.					
	(a) Same	(b) No				
	(c) Any	(d) Plenty				

115) Alcoholic fermentation is the sole mean of

respiration in:

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(b) Armillaria
      (a) Saccharomyces
        (c) Trichonympha
                                (d) Balanitidium
116) The edible part of Motherly escalation is:
      (a) Ascocarp
                                (b) Basidiocarp (c)
      Zygocarp
                        (d) Pseudocarp
117) X0 in drosophila result in sterile:
      (a) Female
                                (b) Male
        (c) Both (a) & (b)
                                (d) No effect
118) A stone is protected vertically upwards from the
      ground at an initial speed of 15 ms-1. Air resistance
      is negligible. What is the maximum height reached
      by the stone?
      (a) 0.76 m
                                (b) 11 m
        (c) 23 m
                                (d) 110 m
119) Evaporation depends upon:
      (a) Surface area
                                (b) Temperature
        (c) both (a) & (b)
                                (d) None of the above
120) Students were heating CaCO<sub>3</sub> in an open container
      to produce CO2 gas,
      CaCO_{3(g)} \rightarrow CaO_{(s)} + CO_{2(g)}
      If we increase pressure on this system the:
      (a) Equilibrium will shift towards right
        (b) Equilibrium will shift towards left
      (c) Equilibrium will not be disturbed
        (d) System does not obey equilibrium rules
121) Saba was sick on the bus
      [The underlined prepositional phrase function as a
          in this sentence]
      (a) Adjunct
                                (b) Disjoint
        (c) Conjunct
                                (d) Adverbial
122) The first successful surgery of heart was performed
      by Dr. Ludwig repairing a wound on which part:
      (a) Right auricle
                                (b) Right ventricle
        (c) Left auricle
                                (d) Left ventricle
123) Lignin could not be expected in which part of the
      plant cell wall:
      (a) Secondary cell wall
                                (b) Middle lamella
       (c) Cell membrane
                                (d) Primary cell wall
124) The following statement is true for the absorption
      spectra of photosynthesis:
      (a) Chlorophyll a and b have same absorption
      spectra
      (b) Chlorophyll a and b have different absorption
      spectra
      (c) Chlorophyll a and carotenoids have same
      absorption spectra
```

(d) Carotenoids and chlorophyll b have same

125) An electromagnetic wave travels in a straight line through a vacuum. The wave has a frequency of 6. THz. What is the number of wavelengths in a

distance of 1.0 along the wave?

absorption spectra

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(a) 5.0 × 10-5

(b) 2.0×10^{1}

(c) 2.0×10^4

- (d) 5.0×10^7
- 126) What is the magnitude of a point charge which produces an electric field of $2\frac{N}{c}$ at a distance of 60

(a) 8 × 10-11C

(b) 2×10^{-17} C

(c) 3 × 10-11C

- (d) 6 × 10-10C
- 127) The alcohol given CH3 CH2 C(CH3)2 OH, if oxidized with a strong oxidizing agent given:

(a) Aldehyde

(b) Ketone

(c) Ether

- (d) None of the above
- 128) The amount of heat required to raise the temperature of 10 moles of water from 70K to 80K (molar heat capacity of water 75.24]) is:

(a) 0.75241

(b) 7524]

(c) 95.24]

- (d) 572.4J
- 129) The aqueous solution of which of the following electrolyte will conduct electric current to large extent:

(a) Mg(OH)2

(b) H₂CO₃

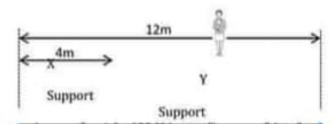
(c) NH₄Cl

- (d) NH₄OH
- 130) Your are called names by him. (Choose the correct voice)
 - (a) He is calling you names
 - (b) He calls you names
 - (c) He called you names
 - (d) You are being called names by him

131) In ECG QRS complex represents

- (a) Atrial systole
- (b) Arial diastole
- (c) Ventricle systole
- (d) Ventricle diastole
- 132) The common name of rubella is:
 - (a) Whooping caught
- (b) German measles
- (c) African sleeping sickness (d) Tay Sach's
- 133) A heterozygote fruit fly has more florescent pigments in their eyes than a wild homozygote fruit fly, this is an example of:
 - (a) Co-dominance (b) Incomplete dominance (c) Over dominance (d) Complete dominance
- 134) To determine Young's modules of a material of a given wire of length L we use:
 - (a) Melde's apparatus
- (b) Young's apparatus
- (c) Searle's apparatus
- (d) Cavendish apparatus
- 135) An electron is projected horizontally from south to north in uniform horizontal magnetic field acting from west to east. The direction along which it will be deflected is:
 - (a) Northwards
- (b) Southwards (c)
- Vertically upwards downwards
- (d) Vertically
- 136) A uniform horizontal footbridge is 12m long and weights 4000 N. It rests on two supports X and Y as

shown.



support X. What is the upward force on the footbridge from support X?

(a) 2200 N

(b) 2300 N

(c) 2400 N

- (d) 2600 N
- 137) A wire of diameter d and length t hangs vertically from a fixed point. The wire is extended by hanging a mass M on its end. The young modoius of the wire is E. The acceleration of free fall is g. Which equation is used to determine the extenuation x of the wire?

(a) $x = \frac{rml}{rmd^2}$ (c) $x = \frac{2mgl}{r\pi d^2}$

(b) $x = \frac{mgt}{Trid^2}$ (d) $x = \frac{4mgt}{Trid^2}$

- 138) A sound wave has a frequency of 2500 Hz and a speed of 1500 m s-1. What is the shortest distance from a point of maximum pressure in the wave to a point of minimum pressure?

(a) 0.15 m

(b) 0.30 m

(c) 0.60 m

- (d) 1.20 m
- 139) Initially one mole each N2 and O2 were made to react as,

If at equilibrium 0.25 moles of O2 is present the equilibrium concentration of NO will be:

(a) 0.50 moles

(b) 0.125 moles (c) 1.50

moles

(d) 1.75 moles

- 140) The compound of manages with zero reducing power is:
 - (a) KMnO₄
- (b) MnOz

(c) MnCl₂

- (d) Mn₂ (SO₄)₃
- 141) Chemical reactions associated with hydro-carbons is /are:

(a) Electrophilic addition

(b)

Electrophilic substitutions (c) Free radical substitutions

(d) All are possible

- 142) The young's modulus of a given rod of uniform length L is given by the relation:
 - (a) FL/A

(b) FA/L

(c) FL/\pir21

- (d) Fl/mr2 L
- 143) The inward and outward electric flux from a closed



surface are respectively 8×10^3 units and 4×10^3 units then the net charge inside the closed surface

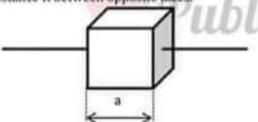
- (a) $\frac{-4 \times 10^3}{\epsilon_0}$ coulomb (b) -4×10^3 so coulomb (c) $\frac{4 \times 10^3}{\epsilon_0}$ coulomb (d) 4×10^3 coulomb
- 144) A radioactive isotope has a half-life of 3 days. The time after which its activity is reduced to 6.25% of its original activity is:
 - (a) 6 days days
- (b) 8 days
- (c) 12

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- (d) 16 days 145) Students calculated the cell voltage for the reaction. Br₂ + 2NaCl → 2Nallr 4 Cl₄
- Through the formula E0cest = E0red + E0cest the answer was negative. It means that
 - (a) The reaction is non-spontaneous and feasible
 - (b) The reaction is non-spontaneous and not feasible
 - (c) The reaction is spontaneous and feasible
- (d) The reaction is spontaneous and not feasible 146) The non-carbonyl compound out of the following

(a)
$$CH_3-CO-CH_8$$
 (b) $C_2H_3-CH-CH_8$ (c) CH_3-CH_8 (c) CH_3-CH_8 (d) CH_3-CH_8

- 147) The empirical formula of the compound was found to be CH2O. If the molar mass of the compound is 150g/mol. The molecular formula of the compound
 - (a) C₆H₂₂O₄
- (b) C4H0O2
- (c) C₅H₁₀O₄
- (d) C3H10Os
- 148) 'Enlarge upon' means:
 - (a) Explain in more detail (b) To make taller
 - (c) To become large
- (d) To measure
- 149) A metal cube with sides of length "a" has electrical resistance R between opposite faces.



What is the resistance between the opposite faces of a cube of the same metal with sides of length 3a?

- (a) 9R
- (b) 3R
- (c) R/3
- (d) R/9
- 150) Which particle is a fundamental particle?
 - (a) Electron
- (b) Hadron
- (c) Neutron (d) Proton

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- 151) The nuclear equation shown has a term missing. ${}_{6}^{14}C \rightarrow {}_{7}^{14}N + {}_{-1}^{0}\beta + \dots$
 - What is represented by the missing terms?
 - (a) An antineutrino neutrino
 - (b) An electron (c) A (d) A position
- 152) The Fridel crafts catalyst "AlCl₃" used in the substitution reactions of Benzene is a good
 - (a) Electrophilic (b) Lewis acid electron deficient specie (d) Dear all properties
- 153) The most reactive compound out of the following
 - (a) Ortho hydroxyl toluene
 - (b) Ortho chloric ethyl beacon
 - (c) Phenol
 - (d) Para ethyl benzoic acid
- 154) Addition of soluble impurities into a liquid and solid respectively causes:
 - (a) Increase in boiling point of liquid and decrease in meeting point of solid
 - (b) Increase in both boiling and melting points
 - (c) Decrease in boiling point of liquid and increase in melting point of solid
 - (d) Decrease in both boiling and melting points
- 155) Which of the following is correct in all respects?
 - (a) I have done matric in 2010
 - (b) This is an utensil
 - (c) The population of the world rises
 - (d) This is the best peach producing valley
- 156) Which of the following is not the part of first line of defense?
 - (a) Sebum
- (b) Perspiration
- (c) Interferon
- (d) Epidermis
- 157) During the formation of addition polymertration, which smaller molecules you think are eliminated: (b) HCI (a) H:0 (c) NH₅
 - (d) No one is eliminated
- 158) My mother offered me milk. But for my life. I could not drink it.
 - [The underlined expression means.]
 - (a) However hard I may try
 - (b) Because of my life
 - (c) For the sake of my life
 - During my life
- 159) Which process of cell division is involved in gametes formation in funarla:
 - (a) Mitosis
- (b) Meiosis
- (c) Amitosis
- (d) Binary Fission

(d)

- 160) Closed vascular system is the characteristic of: (b) Sphenopsida (a) Lycopsida
 - (c) Dicot

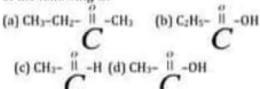
- (d) Monocot
- 161) Common name of the Lotigo prolled is:

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	(a) Squid (d) Oyster	(b) Laligo	(c) Slug		(a) 5.0 cm	(b) 6.0 cm (d) 12.0 cm	(c) 10.0
162)	the state of the s	The state of the s	ns released in	173)	Whenever Pb : form: (a) Ionic bond	shows inert pair o	effect it always
		of incident light hode surface		174)		nd CO ₂ and H ₂ O t	l (d) Metallic bond he hybridization in
163)	A mass m is sus	pended from a sprin angular frequency o		175)	(a) Sp ² and Sp and Sp ³ (d) S	(b) Sp Sp ¹ and Sp ²	p ² and Sp ³ (c) Sp ³ mber of molecular
	(a) $\frac{k}{m}$	(b) $\sqrt{\frac{k}{m}}$			orbitals in O ₂ a (a) 10	ire: (b) 7	
	$(c)\frac{m}{k}$	(b) $\sqrt{\frac{k}{m}}$ (d) $\sqrt{\frac{m}{k}}$		176)		(d) 9 sected guest today	my old
164)	Which expression to the volt? (a) kg m ² s ⁻¹ A ⁻¹	on using S/ base uni (b) kg m		1	classmate. (a) it was was	(b) it is (d) she was	(c) he
165)	(c) kg m ² s ⁻¹ A If the overlap of		s-3 A-1 in carbon	177)	Which of the fo (a) Figs (c) Oranges	ollowing is a sum (b) C: (d) Pe	abbages
	(a) Weak energetic (d) M	(b) Strong	(c) Less	178)	The amount of (a) 10-30%	methane in Biog (b) St	as is approximately 0–90%
166)	(a) Average K.E Potential energy (c) Free energy	nergy below which ts molecules is: of the molecules of the molecules of the molecules by of the molecules	(b)	179)	(a) Na* into the	(d) 60 n of neuron is char e axon and K* out ne axon and Na* o within the axon t	of the axon ut of the axon
167)		ine is coded by how (b) 2 (d) 6	many codons:	180)	terminal Doubly ionized	(d) None of the atoms X and Y o	ie above
168)	Which of the fol (a) Pteris	lowing is not a ferni (b) Tmes is (d) Presidium			entering a unit	form magnetic fie of radii R ₁ and R ₂	
169)	Umbel of umbel				(a) $R_1 : R_2$ $R_1^2 : R_2^2$	(b) R2: R1	$R_2^2: R_1^2$ (c)
170)	A filament lamp	has a resistance of 00 mA. What is the	180Ω when the power	181)	momentum, w	ed of light in spac (b) 2:	the speed equal to
171)	Orange light in a	requency of this lig (b) 5.0 ×	elength of 600	182)	The charge on to half. If the p	the electron and resent value of Ry	proton is reduced ydberg constant is g constant will be:
172)	A stationary sou distance between	nd wave has a serie n the first and the s the wavelength of t	ixth node is	183)	(c) R/8 By the absorpt following com tint?	(d) R, tion of visible ligh pounds gives smo	/16 t, which of the oggy air its brown
					(a) NO (d) t	(b) S(0 ₁ (c) NO: ₁



184) Regarding reactivity of the compounds having carbonyl group. The most reactive compound out of the following is:



- 185) She said, "What a lovely dress it is". [Choose the correct indirect speech:]
 - (a) She xclaimed that it is a lovely dress (b) She exclaimed that it was a lovely dress.
 - (c) She exclaimed that what a lovely dress it was.
 - (d) She exclaimed what a lovely dress it is.
- 186) The living phloem, cork and cork cambium is collectively called:
 - (a) Periderm
- (b) Protoderm
- (c) Peribleam (d) Bark
- (a) BAC (b) YAC (c)
 Cosmids (d) EcoRi
- 188) How many sperms are produced from fifty secondary spermatocyte?
 - (a) 200
- (b) 100
- (c) 50
- (d) 150
- 189) How many cubic nanometers, nm₃, are in a cubic micrometer, µm¹⁷
 - (a) 10°
- (b) 10°
- (c) 10⁸
- (d) 1012
- 190) A man stands in the lift that is accelerating vertically downwards. Which statement describes the force exerted by the man on the floor?
 - (a) It is equal to the weight of the man (b) It is greater than the force exerted by the floor on the man
 - (c) It is less than the force exerted by the floor on the man. (d) It is less than the weight of the man
- 191) The efficiency of a heat engine working between the freezing point and the boiling point of water is near to:
 - (a) 50%
- (b) 25%
- (c) 12.5%
- (d) 6.25%
- 192) An unknown gas diffuses S times slower than that of H₂. The molecular mass of the unknown gas is:
 - (a) 50
- (b) 10
- (c) 15
- (d) 25
- 193) Hydrogen bonding in H F is stronger than H2O

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and NH₃. The highest boiling point among the three is of:

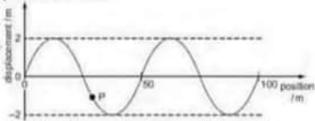
(a) HF

- (b) NH₃
- (c) H₂O
- (d) All have equal boiling points
- 194) The type of isomerism present in the compound given.





- (a) Structural
- (b) Optical
- (c) Stereo
- (d) None of the above
- 195) The main difference between catalysts and enzymes is:
 - (a) Enzymes are sharp in action than catalyst
 - (b) Catalysis used in large amount than enzymes
 - (c) Catalysts are inorganic while enzymes are organic in nature
 - (d) Enzymes need p# while catalysts do not
- 196) Choose the related word for Broom on the analogy of Water: Splash.
 - (a) Whisper
- (b) Gush
- (c) Swish
- (d) Screech
- 197) The first hormone to be discovered was:
 - (a) Secretin
- (b) Testosterone
- (c) Insulin
- (d) Thyroxin
- 198) For defense against virus attack body produces:
 - (a) Antibodies
- (b) Histamines
- (c) Antigens
- (d) Interferon's
- 199) Short life cycle is a plant adaptation to survive in:
 - (a) High temperature
- (b) Low temperature
- (c) High soil pH (d) Low soil pH
- 200) A transverse wave travels along a rope. The graph shows the variation of the displacement of the particles in the rope with distance along it at a particular instant.



At which distance along the rope do the particles have maximum upwards velocity?

- (a) 0.5 m
- (b) 1.0 m
- (c) 1.5 m
- (d) 2.0 m



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1.	C
2.	В
3.	A
4.	C
5.	В
6.	В
7.	В
8.	В
9.	C
10.	D
11.	D
12.	C
13.	C
14.	В
15.	A
16.	D
17.	A
18.	D
19.	A
20.	A
21.	В
22.	A
23.	В
24.	D
25.	D
26.	A
27.	Α
28.	В
29.	A
30.	C
31.	D
32.	C
33.	A
34.	A

35.	A
36.	C
37.	D
38.	В
39,	C
40.	D
41.	D
42.	A
43.	В
44.	b
45.	D
46.	Α
47.	D
48.	A
49,	B
50.	В
51.	D
52.	C
53.	D
54.	В
55.	C
56.	A
57.	C
58.	В
59.	В
60.	Α
61.	C
62.	В
63.	A
64.	D
65.	A
66.	В
67.	A

69.	В
70.	C
71.	C
72.	В
73.	D
74.	Α
75.	C
76.	В
77.	C
78.	C
79.	A
80.	D
81.	A
82.	Α
83.	C
84.	B
85.	A
86.	D
87.	D
88.	B
89.	C
90.	C
91.	В
92.	D
93.	C
94.	D
95.	В
96.	Α
97.	D
98.	C
99.	D
100.	C
101.	D

103.	C
104.	Α
105.	В
106.	В
107,	C
108.	D
109.	D
110.	A
111.	C
112.	Α
113.	В
114.	C
115.	A
116.	A
117.	В
118.	В
119.	D
120,	D
121.	D
122.	В
123.	C
124.	В
125.	C
126.	A
127.	D
128.	В
129.	C
130.	В
131.	0.1
132.	B
133.	C
134.	C
135.	C
136.	C

137.	D
138.	В
139.	C
140.	A
141.	D
142.	C
143.	В
144.	C
145.	В
146.	В
147.	D
148.	Α
149.	C
150.	Λ
151.	A
152.	D
153.	A
154.	A
155.	D
156.	C
157	D
157.	A
158. 159.	A
160.	D
161.	Λ
162.	В
163.	В
164.	D
165.	A
166.	D
167.	C
168.	В
169.	B
170.	A
170.	1.

171.	В
172.	D
173.	Α
174.	В
175.	A
176.	A
177.	A
178.	C
179.	Α
180.	C
181.	C
182.	D
183.	D
184.	C
185.	В
186.	D
187.	D
188.	В
189.	C
190.	D
191.	В
192.	Α
193.	C
194.	C
195.	C
196.	C
197.	Λ
198.	D
199.	В
200.	a