BIOLOGY

- 1. Which one of the following is the main component of lipid bilayer of plasma membrane?
 - A. Acylglycerol
 - B. Lecithin
 - C. Triglyceride
 - D. Waxes
- 2. At which of the following stage of Prophase I, crossing over takes place?
 - A. Diplotene
 - B. Leptotene
 - C. Pachytene
 - D. Zygotene
- 3. Which one of the following type of plastids helps in pollination and seed dispersal?
 - A. Amyloplast
 - B. Chloroplast
 - C. Chromoplast
 - D. Leucoplast
- 4. Which one of the following types of bonds is formed between the hydroxyl group of one amino acid and hydrogen of amino group of another amino acid with release of water?
 - A. Ester bond
 - B. Glycosidic linkage
 - C. Peptide bond
 - D. Phosphodiester bond
- 5. How much delay is required in seconds for conductance from the S.A node to A.V node?
 - A. 0.10
 - B. 0.15
 - C. 0.20
 - D. 0.30

6. Who purified filterable agents for the first time?		
A. Charles Chamberland		
B. Ivanowski		
C. Louis Pasteur		
D. Stanley		
7. When neurotransmitter molecules bind to the receptors on post synoptic membrane, triggering an action potential in the postsynaptic neuron, by causing changes in its		
A. concentrations of certain ion		
B. concentrations of hydrogen ion		
C. permeability of calcium ion		
D. permeability to certain ion		
8. The living cells of cartilage are called		
A. Chondroblast		
B. Chondroclasts		
C. Chondrocytes		
D. Osteocytes		
9. When diaphragm moves downward, ribs moves upward and outward, volume inincreases while pressure in decreases.		
A. abdominal cavity, lungs		
B. chest cavity, lungs		
C. lungs, abdominal cavity		
D. lungs, chest cavity		
10. Which one of the following is the acoelomates?		
A. Aurelia		
B. Chaetopterus		
C. Euplectella		
D. Taenia		

12. Which one of the following conditions produce a sterile female with Turner's syndrome in human but sterile male in <i>Drosophila</i> ?		
A.	Х0	
В.	XX0	
C.	XXX	
D.	XXY	
	usion of ilium, ischium and pubis in pelvic	
girdle	is formed.	
A.		
	cartilaginous joint	
C.	fibrous joint	
D.	hinge joint	
sensatio	of the following parts of brain is related to on of pleasure, feeling of fear, rage and nent or sexual arousal when stimulated?	
A.	Amygdala	
В.		
C.		
D.	Thalamus	
15. How much energy is present in the chemical bond of glucose that is converted into ATP by anaerobic respiration?		
A.	2%	
	4%	
	10%	
D.	36%	

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11. What will be CO₂ fixation efficiency in plants with

photorespiration?

20% B. 25% C. 50% D. 75%

A.

16.	Glyceral Ribulose	n Cycle, the conversion of 5 molecules of dehyde 3-phosphate into 3 molecules of a 1-5, bisphosphate by utilization of ATP is as
	A.	CO ₂ Fixation
		Phosphorylation
		Reduction
	D.	Regeneration
17.		nt of materials across plasma membrane of , to engulf the liquid food is termed as
		Endocytosis
		Exocytosis
		Phagocytosis
	D.	Pinocytosis
18.		ne of the following carbohydrates show dark olor with iodine solution?
	A.	Cellulose
	В.	Glucose
	C.	Glycogen
	D.	Sucrose
19.		the concentration of each of H ⁺ and OH ⁻ ions in ter is aboutmole/liter.
	Α.	10 ⁻⁶
	В.	10 ⁻⁷
	C.	10 ⁻⁹
	D.	10 ⁻¹⁴
20.	have ma	urface of cristae, in the mitochondrial matrix any small knob-like structures, which are
	Α.	ATP synthetase
		Coenzyme Q
	C.	Cytochromes
	D.	Mesosomes

21. When ovulation occurs during uterine cycle in human female?			
Α.	After 6 days of start of menstruation		
В.	After 10 days of start of menstruation		
C.			
D.	After 27 days of start of menstruation		
	yotic cells, autophagosomes are being e from		
Α.	Endoplasmic reticulum		
В.	Golgi bodies		
C.			
D.	Ribosomes		
	23. Which one of the following malfunctioned organelles is mainly related to Tay-Sachs disease?		
A.	Endoplasmic reticulum		
В.	Glyoxysomes		
C.	Golgi bodies		
D.	Lysosomes		
24. Which ty	pe of antibodies are present in the serum of type?		
Α.	Anti-A and anti-B antibodies		
В.	Anti-A antibodies		
C.	Anti-B antibodies		
D.	No antibodies at all		
25. When 3 fatty acids combine with, they form triglycerides and 3 molecules of water.			
A.	Alcohol		
В.	Ester		
C.	Glyceride		
D.	Glycerol		

C. D.	homology paleontology	
electror	27. Which one of the following is the end product in electron transport chain taking place at inner mitochondrial membrane?	
	Carbon dioxide NADPH Oxygen Water	
leaves v	one of the following plants has modified bilobed with midrib between them having long stiff along the margins of each lobe?	l
A. B. C. D.	Dionaea muscipula Drosera excelsa Drosera intermedia Nepenthes pupurea	
	h one of the following types of dominance, oic and phenotypic ratios are same in F ₁ ion?	
A. B. C. D.	Complete dominance	
30. A covalently bonded inorganic ion with protein part of an enzyme is termed as		
A. B. C. D.	Coenzyme Holoenzyme	
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26. The science of discovery, identification, and interpretation of fossils by Darwin was____

evidence.

A. biogeographyB. chronology

В.	Chemotherapeutics
	Disinfectants Vaccines
υ.	vaccines
followin	c Photophosphorylation, which one of the ng processes of light dependent reaction of onthesis is NOT included?
Α.	Absorption of light
В.	ATP synthesis
C.	Photoexcitation
D.	Photolysis of water
33. What is	the range of carbon dioxide in the air?
A.	0.003-0.004%
	0.03-0.04%
	0.3-0.4%
D.	3-4%
	one of the following cells produce the first polar ring oogenesis in female reproductive system?
Α.	Oogonia
В.	Ovum
C.	Primary oocytes
D.	Secondary oocytes
	es occupy the active site of enzymes by forming t bond, thus comes under thers.
Α.	competitive
	irreversible
	non-competitive
D.	reversible

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31. Which one of the following group of chemicals are used to kill or inhibit the growth of microorganisms in living

tissues?

A. Antiseptics

	one of the following is the first electron accepter DH2 during electron transport chain?
A.	Coenzyme Q
В.	Cytochrome a
C.	Cytochrome b
	Cytochrome c
37. Which o	one of the following is anaerobic bacterium?

- A. Campylobacter
- B. E. coli
- C. Pseudomonas
- D. Spirochete
- 38. Which one of the following hormones has greater influence on peripheral vasoconstriction with net effect in the rise of blood pressure?
 - A. Antidiuretic hormone
 - B. Epinephrine
 - C. Nor-epinephrine
 - D. Thyroid stimulating hormone
- 39. At the end of ileum, there is a/an _____sphincter that opens and closes time to time to allow a small amount of residue to enter the large intestine.
 - A. hepatic
 - B. cardiac
 - C. ileocolic
 - D. pyloric
- 40. Which one of the following was key point of Darwinism?
 - A. Decent with modification
 - B. Endosymbiont hypothesis
 - C. Inheritance of acquired characters
 - D. Use and disuse of organs

A. B. C. D.		
	ilia type A and B zigzag from ther through a carrier daughter to a	
A. B. C. D.	paternal, granddaughter	
	n of the following reactions of glycolysis, ATP is olved directly?	
A.	When 1,3-Bisphosphoglycerate is converted	
В.	into 3-phosphoglycerate When Fructose 6-phospate is converted into fructose 1,6-bisphosphate	
C.	When glucose is converted into glucose 6- phosphate	
D.	When glyceraldehyde 3-phosphate is converted into 1,3-Bisphosphoglycerate	
44. Which one of the following is NOT the bacteria?		
А.	Acanthurus nigrofuscus	
В.	Epulopiscium fishelsoni	
C.	<i>,</i> ,	
D.	Mycoplasma Spp	
45. Groups of ribosomes associated with rough endoplasmic reticulum and Golgi apparatus present in the cell body of neurons, is termed as		
Α.	Axoplasm	
В.	Nissl's granules	
C.	Node	
D.	Polysomes	

41. Which one of the following chemicals in blood circulation is the cause of inflammation in upper

respiratory tract?

membranous sacs called		
Α.	_p	
В.		
C.		
D.	Pleura	
	ne of the following monosaccharides is a aldehyde form of sugar?	
A.	Fructose	
В.		
C.	Glucose	
D.	Ribose	
	oots, apoplast pathway becomes discontinuous ndodermis due to the presence of	
Α.	casparian strips	
В.	•	
C.		
D.	•	
	of the following glands is mainly related to the on of stress hormones?	
A.	Adrenal gland	
	Parathyroid gland	
C.	Pituitary gland	
D.	Thymus gland	
	one of the following organelles is ONLY present obacteria?	
A.	Heterocyst	
В.	-	
C.		
D.		
51. Which of the following conjugate molecules are present as surfactants in respiratory distress syndrome?		
A.	Glycolipids	
В.	Glycoproteins	
C.	Lipopolysaccharides	
D.	Lipoproteins	

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46. Lungs are covered with double layered thin

quality of wild (w	ophila, the heterozygote(w/w ⁺) exceeds in of fluorescent pigment in eyes than '/w ⁺) or white eye (w/w), this kind of nce is termed as
A. B. C. D.	•
53. In huma	an testes, spermatozoa are present in
occurs i	one of the following types of phosphorylation n electron transport chain, when NADH transfer as to coenzyme Q in inner mitochondrial ane?
A. B. C. D.	iteli eyelle i iteepitel yilaleti
55. Gall sto	nes are mostly made up of
B. C.	Calcium Calcium Phosphate Cholesterol Proteins
	one of the following allows the exchange of RNA tein between the nucleus and cytoplasm?
^	Nuclear matrix

B. Nuclear poresC. Nucleolus

Nucleoplasm

D.

57. The side of sheath attached to head region in bacteriophage is termed as		
C.	Capsid Collar Core End plate	
higher ii	resting membrane potential, K ⁺ aren concentration inside than outside the nne surface.	
В. С.	ten-times fifteen-times twenty times twenty-five times	
59. Which one of the following bones is NOT the part of eye orbit?		
В. С.	Ethmoid Lacrimal Sphenoid Zygomatic	
60. Lock and	d key model (1890), was modified by	
	Emil Fischer Erwin Chargaff Koshland Lorenz Oken	
61. Which of the following part of phospholipids constitutes hydrophobic zone in plasma membrane?		
	Cholesterol Fatty acid tail Glycolipids Phosphate head	

	of the following types of salivary glands are behind the jaws?
Α.	Maxillary glands
В.	Parotid glands
C.	Sublingual glands
D.	Submaxillary glands
63. Which o	one of the following blood vessels has larger

- 63. Which one of the following blood vessels has larger bore, thin walls, and without pulse?
 - A. Aorta
 - **B.** Arteries
 - C. Capillaries
 - D. Veins
- 64. During which stage of bacteriophage replication, lysozyme is involved?
 - A. Adsorption
 - B. Attachment
 - C. Multiplication
 - D. Penetration
- 65. Which of the following proteins do NOT exhibit quaternary structure?
 - A. Actin
 - B. Haemoglobin
 - C. Insulin
 - D. Myoglobin
- 66. When a person is exposed to HIV, becomes ill but survive, as a result the immunity developed against disease is called______.
 - A. Artificial Active Immunity
 - **B.** Artificial Passive Immunity
 - C. Natural Active Immunity
 - D. Natural Passive Immunity

67 .	Which one of	the follow	ving sexu	ıally	transmitt	ed
	disease attac	k on T ₄ Ly	mphocyt	es?		

- A. AIDS
- **B.** Genital Herpes
- C. Gonorrhea
- D. Syphilis
- 68. When muscle contract, Z-line is_____, I-band _____ and H-zone disappear.
 - A. closer, enlarged
 - B. closer, shorten
 - C. distant, enlarged
 - D. distant, shorten

CHEMISTRY

- 69. Which compound is used as a reference for calculating the extent of stability of benzene?
 - A. Cyclohexane
 - B. Cyclohexene
 - C. 1,3,5-cyclohexene
 - D. 1,3,5-cyclohexatriene
- 70. When CO₂ reacts with propyl magnesium chloride followed by acid hydrolysis, the product formed is
 - A. Butanoic acid
 - B. Ethanoic acid
 - C. Pentanoic acid
 - D. Propanoic acid
- 71. What is the range of atomic numbers of the 3d series of transition elements?
 - A. 20-30
 - B. 21-30
 - C. 22-30
 - D. 24-30
- 72. What will be the number of atoms in 2 moles of water molecule?
 - A. 6.02X10²³
 - B. 1.24X10²⁴
 - C. 1.92X10²⁴
 - D. 3.61X10²⁴
- 73. Consider a reaction of A into B, if K value is $3x10^{-12}$ at 200° C then what will be the value of K at 250° C?
 - A. $K = 9 \times 10^{-3} s^{-1}$
 - B. $K = 12 \times 10^{-3} s^{-1}$
 - C. $K = 6 \times 10^{-12} s^{-1}$
 - D. $K = 15 \times 10^{-12} s^{-1}$

	upon
A.	amount of liquid
В.	external atmospheric pressure
C.	intermolecular forces
D.	type of bond
	an example ofarrangement of
crystal	lattice.
A.	Monoclinic
В.	Octahedral
C.	Tetrahedral
D.	Triangular
	a for partial pressure calculation of any ent in mixture of gases is
Δ.	$P_i = P_t / X_i$
	$P_i = P_t + X_i$
	$P_i = P_t R$
D.	$P_i = P_t X_i$

77. What will be the internal energy of a system at constant volume?

A. $\Delta E = 0$ B. $\Delta E = q + P$ C. $\Delta E = q + P\Delta V$ D. $\Delta E = q_v$

78. Which of the following law helps to calculate the absolute temperature?

A. Avogadro's LawB. Boyle's LawC. Charles LawD. Dalton's Law

79. The IUP	AC name of given organic compound is
CH₃-Çŀ	H-CH ₂ -CH ₂ -CHO
CI	
	2-Chloropentanal
	2-Chloropentanol
C.	4-Chloropentanal
D.	4-Chloropentanol

- 80. Which type of reaction will be occur, when an alcohol reacts with a carboxylic acid?
 - A. Dehydration reaction
 - B. Dehydrogenation reaction
 - C. Esterification reaction
 - D. Reduction reaction
- 81. Diamagnetic behavior of Flourine molecule is due to presence of______.
 - A. paired electrons in d orbitals
 - B. paired electrons in p orbitals
 - C. unpaired electrons in d orbitals
 - D. unpaired electrons in p orbitals
- 82. Metallic character of alkaline earth metals _____ down the groups.
 - A. decreases
 - B. gradually increases then decreases
 - C. increases
 - D. remains same
- 83. Which of the following is the unit of rate of reaction?
 - A. $(mol-dm^3)^{-1}s^1$
 - B. $mol(dm^3)s^{-1}$
 - C. $mol(dm^3)^{-1}s$
 - D. $mol(dm^3)^{-1}s^{-1}$

C.	25g	
D.	30g	
85. The IUP	PAC name of Malonic acid CH ₂ (COOH) ₂ is	
Α.	1,2-Ethanedioic acid	
В.	1,3-Propanedioic acid	
C.	1,4-butanedioic acid	
D.		
	the IUPAC name of given compound? =CH-CH2-C≡CH	
	2-Hexen-5-yne	
C.	2-Hexen-6-yne 4-Hexen-1-yne	
D.	5-Hexen-1-yne	
	f the following metal forms superoxide when with oxygen?	
A.	Beryllium	
В.	Lithium	
C.	Magnesium	
D.	Potassium	
	al equilibrium given below will shift to rd direction by	
A.	decreasing pressure and increasing temperature	
В.	decreasing the temperature	
C.	increasing the concentration of NO & O ₂	
D.	increasing the pressure	
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84. If percentage yield of chemical reaction is 60%, actual

yield is 15g, what is its theoretical yield?

18g

20g

Α. В.

89. Which of the following element will show electronic configuration of outermost shell like ns ² , np ⁵ ?		
A. B. C. D.	S	
	ill be formula of work, when work is done on em by the surrounding?	
В. С.	$W = -P/\Delta V$ $W = -P\Delta V$ $W = P/\Delta V$ $W = P\Delta V$	
	roduct is formed by the reaction of phenol with rated nitric acid?	
В. С.	Adipic acid m-Nitrophenol Picric acid p-Nitrophenol	
	the percentage mass ratio of carbon and en in benzene?	
C.	1:1 3:1 6:1 12:1	
93. Transiti	on element Vanadium mostly act as	
C.	Amphoteric Neutral Oxidizing agent Reducing agent	
94. Which type of redox reaction takes place at cathode of the electrochemical cell?		
A. B. C. D.	Decomposition Dissociation Oxidation Reduction	

95.	Which	type of	catalys	t is us	ed dı	uring	electrop	hilic
	substi	tution r	eactions	of be	nzen	ıe?		

- A. Amphoteric
- B. Lewis's acid
- C. Lewis's base
- D. Transition metals

96. The correct stability order of M⁺⁴ cations is______.

- A. $Ge^{+4} < Pb^{+4} < Sn^{+4}$
- B. $Ge^{+4} < Sn^{+4} < Pb^{+4}$
- C. $Ge^{+4} > Pb^{+4} > Sn^{+4}$
- D. $Ge^{+4} > Sn^{+4} > Pb^{+4}$

97. Which type of isomerism is shown by fumaric acid and maleic acid?

- A. Functional group isomers
- **B.** Geometrical isomers
- C. Optical isomers
- D. Position isomers

98. Unimolecular nucleophilic substitution reaction involves ______.

- A. 1st order kinetics
- B. 2nd order kinetics
- C. 3rd order kinetics
- D. zero order kinetics

99. What will be the molarity of HCl solution with pH=4?

- A. 0.0001
- B. 0.0004
- C. 0.004
- D. 4.0

100. If weak acid is diluted with water, then H ⁺ ions concentration will			
C.	decrease gradually decreases then increase increase remain same		
	one the following is NOT an example of chemical cell?		
В. С.	Electrolytic cell Photovoltaic cell Solar cell Voltic cell		
	turated alicyclic hydrocarbons have the general a		
В. С.	C _n H _{2n} C _n H _{2n+1} C _n H _{2n+2} C _n H _{2n-2}		
	life of a chemical reaction is 30 minutes, how ime is required for its 87.5% completion?		
Α.	30 min		
	60 min		
C.	90 min		
D.	120 min		
104. The oxidation of methanal results in the formation of			
Δ	Acetic acid		
	Formic acid		
	Methanol		
	Propanoic acid		
	•		

105.	Which	of the	following	metal	hydroxide	is	the
	strong	est bas	se?				

- A. Ca(OH)₂
- B. LiOH
- C. Mg(OH)₂
- D. NaOH

106. Which one of the following molecules has zero dipole movement?

- A. Ammonia
- B. Carbon dioxide
- C. Hydrogen fluoride
- D. Water
- 107. How many electrons will be accommodated in subshell with Azimuthal quantum number $\ell = 2$?
 - A. 2
 - B. 6
 - C. 10
 - D. 12
- 108. Which of the following mixture will constitute the buffer solution?
 - A. Acetic acid & sodium acetate
 - B. Acetic acid & ammonia
 - C. Acetic acid and its ammonium acetate
 - D. Ammonia & ammonium acetate
- 109. What will be the IUPAC name of neopentane?
 - A. 2,2-Dimethypentane
 - B. 2,2-Dimethypropane
 - C. 2-Methylbutane
 - D. 3-Methylbutane

- 110. According to law of mass action, $K_p > K_c$ when reaction occurs with______.
 - A. decrease in volume on product side
 - B. increase in volume on product side
 - C. increase in volume on reactant side
 - D. simultaneous increase and decrease of product
- 111. The correct reactivity order of the following compounds towards nucleophile is_____
 - A. H-CO-H < H-CO-R < R-CO-R
 - B. H-CO-H > H-CO-R > R-CO-R
 - C. H-CO-R < H-CO-H < R-CO-R
 - D. H-CO-H > R-CO-R > H-CO-R
- 112. The anion derived by deprotonation of an alcohol acts as______.
 - A. Acidic moiety
 - B. Electrophile
 - C. Lewis acid
 - D. Lewis base
- 113. Who stated that enthalpy change in a chemical reaction is same whether the reaction takes place in single step or in several steps?
 - A. Arrhenius' Law
 - B. Born Haber's Law
 - C. Dalton's Law
 - D. Hess's Law
- 114. Which type of substituent will increase the acidic strength of phenols?
 - A. Electron donating substituents
 - B. Electron withdrawing substituents
 - C. Lewis's bases
 - D. Nucleophiles

В.	Hydrogen bond	
C.		
D.	Metallic bond	
116. Which solid?	of the following is an example of molecular	
	Al ₃ N ₂	
	CO ₂	
	CsF	
D.	NaCl	
	will be mole ratio of Al to O ₂ after balancing on given below?	
Α.	1:1	
	2:3	
C.		
	4:3	
	product will be formed finally on the reduction ic acid with LiAlH4?	1
A.	Ethanal	
В.	Ethane	
C.		
D.	Ethanol	
	elting and boiling point of alcohols are high as red to corresponding alkanes due to	
A.	Dipole-dipole interaction	
В.	Hydrogen bonding	
C.	Ionic interactions	
D.	Van der Waal interactions	
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115. Water is liquid at room temperature as compared to

Co-ordinate covalent bond

Α.

ammonia and hydrogen disulphide due to presence of

combu	istion of 2 moles of propane?
A.	08
В.	10
C.	12
D.	14
121. The e/ electro	m ratio of proton isthat of an on.
A.	1837 times greater than
В.	equal to
C.	greater than

120. How many moles of oxygen gas are needed for

- 122. At constant volume, the heat supplied to a system is always equal to its _____.
 - A. bond energy

D. smaller than

- B. enthalpy change
- C. heat of sublimation
- D. internal energy change

PHYSICS

	123. The gradient/slope of I-V (Current-Potential) graph provides			
Α.	Conductance			
	Conductivity			
	Resistance			
D.	Resistivity			
	which condition Newton performed experiment culation of speed of sound in air?			
Α.	Adiabatic			
В.	Isobaric			
C.	Isochoric			
D.	Isothermal			
	one of the following is an example of erse waves?			
A.	Sound waves			
В.	Water waves			
C.	Waves associated with electron			
D.	Waves in spring			
126. Diode	is a/andevice, which can be used			
for rec	for rectification process.			
Α.	insulating			
В.	perfect conducting			
	perfect insulating			
D.	semiconductor			

- 127. The SI-unit of capacitance of capacitor is Farad, it can also be expressed as______.
 - $A. \quad \frac{A^2 S^2}{Nm}$
 - $\mathbf{B.} \quad \frac{A^2 s^3}{Nm}$
 - $\mathbf{C.} \quad \frac{A^3s}{Nm}$
 - $D. \quad \frac{A^2s}{Nm}$
- 128. The strength of radiation source is indicated by its activity measured in Becquerel. So, 10 Becquerel is equal to_____decay per second.
 - A. 10
 - B. 100
 - C. 1000
 - D. 10000
- 129. If 60A current passes through a wire in 60 seconds.

 What will be the value of charge existing in the wire?
 - A. $4.6 \times 10^{-3} \text{ C}$
 - B. $3.6 \times 10^{-3} \text{ C}$
 - C. $2.6 \times 10^3 \text{ C}$
 - D. $3.6 \times 10^3 \text{ C}$
- 130. What will be the fundamental frequency in a stretched string, when it is plucked at central point while it has a speed of 48 ms⁻¹ with string length of 8m?
 - A. 3 Hz
 - B. 6 Hz
 - C. 9 Hz
 - D. 12 Hz

- 131. At what value of angle between the magnetic field intensity and vector area, the magnetic flux becomes zero?
 - A. 0°
 - B. 30°
 - C. 45°
 - D. 90°
- 132. The kinetic energy of emitted electrons in photoelectric effect can be increased by increasing
 - A. applied potential of electrodes
 - B. frequency of electromagnetic wave
 - C. intensity of incident light
 - D. momentum of incident photon
- 133. Which of the following rule helps us to detect the direction of angular velocity?
 - A. Head to tail rule
 - B. Kirchhoff rule
 - C. Left hand rule
 - D. Right hand rule
- 134. Which one of the following is the best condition for performing maximum work by any thermodynamic system?
 - A. Adiabatic condition
 - **B.** Isobaric condition
 - C. Isochoric condition
 - D. Isothermal condition
- 135. The acceleration can be determined by the gradient of
 - A. Displacement-time graph
 - B. Force-time graph
 - C. Speed-time graph
 - D. Velocity-time graph

136. Alternating current generator is a device which is used to convertinto			
A. B. C. D.			
137. Electro	on-volt is the unit of		
В. С.	Charge Current Electric potential Energy		
138. The electric flash attachment for a camera contains a capacitor for storing the energy used to produce the flash. In one such unit, the potential difference between the plates of 20F capacitor is 5V. Calculate the energy that is used to produce the flash?			
A.	250 J		
В.	310 J		
C.	500 J		
D.	650 J		
139. Cancer	ous thyroid is treated with		
A.	Chlorine-36		
	Coblt-60		
C.	Iodine-131		
D.	Radium-226		
140. The rate of change of magnetic flux is measured in			
A.	Coulomb		
	Ohm		
	Volt		
D.	Watt		

are mo	odies with kinetic energies having ratio of 4:1, oving with equal linear momentum. The ratio of nasses is
Δ	1:1
	1:2
C.	1:4
	4:1
	man series contain the wavelengths in theof the hydrogen spectrum.
Α.	far-infrared region
	infrared region
C.	ultraviolet region
	visible region
	te of change of linear momentum is equal to
Α.	Force
В.	Impulse
C.	Torque
D.	Velocity
	ope of velocity-time graph gradually decreases, ne body is said to be moving with
Α.	Negative acceleration
В.	Positive acceleration
C.	Uniform velocity
D.	Variable acceleration
horsep	ish Engineering system, the unit of power is power. Numerically 1000 hp is equal to
Α.	7460 watts
	74600 watts
	746000 watts
	7460000 watts

146. Kilowatt hour is the commercial unit of electrical energy. 1Kwh is equal to_____ A. 3.6 meV B. 3.6 MeV C. 3.6 J D. 3.6 MJ 147. If kinetic energy of a body becomes four times of the initial value, then the new momentum will become twice of its initial value Δ become three times of its initial value B. become four times of its initial value remain constant 148. The turns ratio of a step-up transformer is 5. A current of 20A is passed through its primary coil at 220V. Calculate the value of voltage in secondary coil? Α. 1000V B. 1025V C. 1050V D. 1100V 149. In any electric circuit, power output (Pout) will be maximum when____ (Whereas R = External Resistance, r = Internal)Resistance) A. R = 0 but $r \neq 0$ B. r = 0 but $R \neq 0$ C. $R = \infty$ and r = 0D. R = r150. A man pulls a trolley through a distance of 50 m by applying a force of 100N, which makes an angle of 60° with x-axis. Calculate the work done by the man? $(\cos 60^{\circ} = 0.5)$ A. 2500 J B. 5340 J C. 6430 J

D. 7120 J

	sothermal condition of any thermodynamic n, the change in internal energy
A.	becomes maximum
В.	becomes minimum but greater than zero
C.	becomes zero
D.	remains constant
152 Which	one of the following factors is the best for

- 152. Which one of the following factors is the best for calculation Compton's shift?
 - A. Angular spin of electron
 - B. Energy of electron
 - C. Energy of photon
 - D. Scattering angle of photon
- 153. The instantaneous acceleration of an object travelling with uniform speed in a circle directed towards the center of circle is referred as
 - A. Angular acceleration
 - B. Centrifugal acceleration
 - C. Centripetal acceleration
 - D. Tangential acceleration
- 154. If the half-life of any radioactive nucleus is 0.693 year, what will be the value of decay constant?
 - A. 0.001 s⁻¹
 - B. 0.01 s⁻¹
 - C. 0.1 s⁻¹
 - D. 1 s⁻¹
- 155. Which one of the following is the SI-unit of angular displacement?
 - A. Degree
 - B. Radian
 - C. Revolution
 - D. Steradian

156. By increasing the temperature of medium about 1°C, the speed of sound is increased up to
A. 0.41 ms ⁻¹ B. 0.51 ms ⁻¹ C. 0.61 ms ⁻¹ D. 0.71 ms ⁻¹
157. At what angle made by projectile with x-axis, we can get 1/4 th value of maximum height achieved by projectile?
A. 30° B. 45° C. 60° D. 90°
158. Which one of the following materials has negative temperature coefficient of resistance?
A. Copper B. Germanium C. Sulphur D. Zinc
159. There is no net transfer of energy by particles of medium in
A. Longitudinal waveB. Progressive waveC. Stationary waveD. Transverse wave
160. In which of the following condition, the thermodynamic system DOES NOT perform any work?
A. Adiabatic conditionB. Isobaric conditionC. Isochoric conditionD. Isothermal condition

	nt angle made by scattered photon with x-axis, a get maximum value of Compton's shift?
A.	0°
В.	45°
C.	90°
D.	180°

- 162. Which of the following series of hydrogen spectrum lies in visible region?
 - A. Balmer B. Bracket
 - C. Lyman
 - D. Paschen
- 163. How many electrons are there in one Coulomb charge?
 - A. 6.25 x 10¹⁵
 - B. 6.25×10^{16}
 - C. 6.25×10^{17}
 - D. 6.25×10^{18}
- 164. The SI-unit of magnetic flux is weber. Weber can also be expressed as _____.
 - A. Joule per ampere
 - B. Joule per coulomb
 - C. Newton per ampere
 - D. Newton per coulomb
- 165. The electrostatic force between two point-charges is independent of one of the following quantities?
 - A. Distance between charges
 - B. Magnitude of charges
 - C. Medium between charges
 - D. Temperature of charges

	res 1000 waves in 10 seconds?
	0.001s
	0.01s
_	0.02s
D.	0.1s
	antity of motion present in a body can be red by
A.	Acceleration
	Momentum
C.	Speed Velocity
D.	Velocity
168. The SI	-unit of relative permittivity is/has
	C^2
A.	$\frac{1}{N_{\rm m}^2}$
	C-1
В.	<u>V7</u>
	N.M -
C.	C^{-2}
<u> </u>	N.m
D.	no Unit
169. A coil o	of 100 turns is linked by a flux of 20 mWb. If
	x is reversed in a time of 2 ms, calculate the
averag	e induced emf in the coil?
A.	1000 volts
В.	2000 volts
C.	3000 volts
D.	4000 volts
170. The Le	nz's law of electromagnetic induction is in
accord	ance with law of conservation of
	Charge
В.	Energy
	Mass
D.	Momentum

	uch phase difference is required between two to form destructive interference?	,
B. C.		
173. Which o intensit	one of the following is the unit of electric field ty?	i
В. С.	Newton per Ampere Newton per volt Volt per Coulomb Volt per meter	
seconds	ing pulley completes twelve revolutions in 4 s, calculate the average angular velocity of g pulley in revelation per second?	
A. B. C. D.	5	
	s the SI-unit of magnetic field intensity. Tesla o be expressed as	
В. С.	N ⁻¹ A ⁻¹ m ⁻¹ N ⁻¹ Am ⁻¹ NA ⁻¹ m ⁻¹ NAm ⁻¹	
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171. Which one of the following is the SI-unit of conventional current in a conductor?

A.

Ampere B. Coulomb C. Ohm

D. Ohm meter

- 176. In one dimensional elastic collision of two bodies of same masses, what will happen if moving body collides with the mass which is initially at rest?
 - A. The collision would become inelastic
 - B. Their velocities will be interchanged
 - C. Their velocities will remain same
 - D. Velocities of both bodies will be zero

ENGLISH

Complete the sentences by choosing the best option, from the given lettered choices (A to D) below each.

below each.
177. Supply the correct preposition:
I was almost backmy classroom door when I heard a strange noise.
A. at B. by C. in D. to
178. Supply the correct form of verb:
Farah has plannedbefore the next term.
A. resignB. resignationC. resigningD. to resign
179. Identify the type of sentence given below:
The caliph noticed the merchant.
A. ComplexB. CompoundC. Compound-complexD. Simple
180. Supply the correct preposition:
Have you been in this companysix weeks?
A. during B. for C. just D. since

181.	Identify the	correct indirect	form for	the senter	nce
	given below	:			

The speaker said to the audience, "Will you listen to me?"

- A. The speaker asked the audience if they had listened to him.
- B. The speaker asked the audience if they will listen to him.
- C. The speaker asked the audience if they would listen to him.
- D. The speaker asked the audience to listen to him.

182. Identify the correct spelling:

- A. Discremination
- **B.** Discrimenation
- C. Discrimination
- D. Disscrimnation

183. Supply the correct antonym for the capitalized word:

Your RECKLESS behavior is not acceptable. You have to be more_____.

- A. careful
- B. happy
- C. hardworking
- D. kind

184. Complete the sentence using the appropriate punctuation mark:

Punishment brings wisdom____it is the healing art of wickedness.

- Α.,
- B. -
- C. ;
- D. :

185. Identify the figu	re of speech in the following
sentence:	

He is considered the black sheep of the family.

- A. Alliteration
- B. Imagery
- C. Metaphor
- D. Simile

186. Supply the correct form of verb:

We had taken our meal before we_____.

- A. had left
- B. have left
- C. left
- D. were leaving

187. Supply the correct antonym for the capitalized word:

What can be done to ALLEVIATE the situation?

- A. Aggravate
- B. Anticipate
- C. Clear
- D. Manipulate

188. Supply the correct synonym for the capitalized word:

An ORTHODOX is a _____person.

- A. clever
- B. confident
- C. confused
- D. conservative

189. Identify the correct passive form for the sentence given below:

The guard did not open the gate.

- A. The gate did not open by the guard.
- B. The gate had not been opened by the guard.
- C. The gate was not being opened by the guard.
- D. The gate was not opened by the guard.

		· · · · · · · · · · · · · · · · · · ·
		ew government brought STUPENDOUS changes economy andits critics.
	A.	destroyed
	В.	fooled
	C.	involved
	D.	surprised
191.		derlined part in the sentence given below is an
		oial clause of:
	Althou	gh Mehran is hardworking, yet he failed.
	A.	Concession
	В.	Condition
	C.	Manner
	D.	Reason
192.	Supply	the correct form of verb:
	Had I	known the answer Iit.
	A.	got written
	В.	have written
	C.	would have written
	D.	wrote

190. Supply the correct synonym for the capitalized word:

Questions 193-194

"This is the way, Jess," said my father, pointing with his cane across the deep valley below us. "I want to show you something you've not seen for many years!"

"Isn't it too hot for you to do much walking?" I wiped the streams of sweat from my face to keep them from stinging my eyes.

I didn't want to go with him. I had just finished walking a half mile uphill from my home to his. I had carried a basket of dishes to Mom. There were two slips in the road and I couldn't drive my car and I knew how hot it was. It was 97 in the shade. I knew that from January until April my father had gone to eight different doctors. One of the doctors had told him to get a taxi to take him home. But my father walked home five miles across the mountain and told my Mom what the doctor had said. Forty years ago, a doctor had told him the same thing. And he had lived to raise a family of five children. He had done so much hard work in those years as any man.

193. The sentence "It was 97 in the shade." refers to the

- A. age
- B. distance
- C. temperature
- D. year

194. The narrator has____siblings.

- A. four
- B. five
- C. six
- D. no

LOGICAL REASONING

The high school math department needs to appoint a new chairperson on the basis of seniority.

Ms. Madiha is less senior than Mr. Tanvir but more than Ms. Aiyza.

Mr. Rehan is more senior than Ms. Madiha but less than Mr. Tanvir.

Mr. Tanvir doesn't want the job.

- 195. Who will be the new chairperson of math department?
 - A. Mr. Rehan
 - B. Mr. Tanvir
 - C. Ms. Aiyza
 - D. Ms. Madiha
- 196. What are the missing alphabets in the sequence EZFA, GBHY, IXJC, _____?
 - A. KDLW
 - B. KLDW
 - C. KWLD
 - D. LDKW
- 197. "All practical numbers are even" is a false statement then the true statement is ______.
 - A. all practical numbers are odd
 - B. some practical numbers are not even
 - C. some practical numbers are even
 - D. some practical numbers are not odd
- 198. In a group of 100 players, 70 play football, 50 play hockey, and 55 play cricket. 30 play both hockey and cricket, 25 play both football and hockey and 20 play all three games. How many players play both football and cricket?
 - A. 25
 - B. 30
 - C. 35
 - D. 40

- 199. A customer has filed a complaint about your product, stating it does NOT meet his expectation. What is your course of action?
 - A. Argue with the customer about the validity of their complaint
 - B. Customer complaint is not filed within the time limit
 - C. Offer a replacement
 - D. Tell the customer it's his fault for not using the product correctly

200. Statements:

- I. Large numbers of people have fallen sick after consuming sweets from a particular shop in the locality.
- II. Major part of the locality is flooded and has become inaccessible.
 - A. Statement I is the cause and statement II is its effect.
 - B. Statement II is the cause and statement I is its effect.
 - C. Both the statements I and II are independent causes.
 - D. Both the statements I and II are effects of independent causes.

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Q34	B	- 1	L
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Q172 D Q173 D Q174 A Q176 C Q176 B Q177 A Q178 D Q179 D Q180 B	0175	-	
G173 D G174 A G175 C G176 B G177 A G178 D G179 D G189 B G181 C	0477	-	
Q174 A Q175 C Q176 B Q177 A Q178 D Q178 D Q180 B Q181 C		-	
Q175 C Q176 B Q177 A Q178 D Q179 D Q180 B Q181 C			
Q175 C Q176 B Q177 A Q178 D Q179 D Q180 B Q181 C	0174	A	
Q178 B Q177 A Q178 D Q179 D Q180 B Q181 C			
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Q180 B Q181 C	Q179	D	
Q181 C	Q180	В	
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Q. No.	BLUE
Q182	u
Q183	A
Q184	u
Q185	u
Q186	A C C C A A A A B D C D
Q187 Q188 Q189	4
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Q189	۵
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Q191	A
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Q194	A
Q195	4
Q196 Q197	A
	В
Q198	٥
Q199	C
Q200	D

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