

PMC Paid practice test bundle 2 paper 4

Physics

Q 1

SI unit of inductance is

A

Henry

B

Farad

C

Maxwell

D

Weber

Q 2

What is the relationship between Power, Current and Resistance

A

$P=I^2R$

B

$P=I^2R/2$

C

$P=IR$

D

All of them

Q 3

Which element has three isotopes?

A

H

B

O

C

Cl

D

none of these

Q 4

A 250V bulb passes a current of 0.3A. Calculate the power in the lamp.

A

50W

B

75W

C

100W

D

90W

Q 5

An object is travelling in a circle at constant speed. Its angular velocity is:

A

changing

B

the same

C

increasing

D

decreasing

Which rays has highest mass

A

alpha rays

B

beta rays

C

gamma rays

D

none of these

Q 7

The efficiency of the heat engine can be defined as:...

A

Q2 1 - ----- Q1

B

Q2 1 + ----- Q1

C

Q1 1 - ----- Q2

D

Q1 1 + ----- Q2

Q 8

Electron charge in accelerating motion will produce

A

electric field

B

magnetic field

C

EM waves

D

none of these

Q 9

If two point charges of charge q_1 and q_2 are placed at distance d . The force between them is proportional to:...

A

d

B

d^2

C

$1/d$

D

$1/d^2$

Q 10

If a current wire of 2 A and length 5m enters perpendicular to magnetic field of 10T. calculate the force experienced by it

A

50N

B

100N

C

200N

D

25N

Q 11

Two bodies of mass m and $4m$ moving with same kinetic energy, ratio of kinetic energy will be

A

4 : 1

B

1 : 1

C

1 : 4

D

1 : 2

Q 12

A particle moves from point $P(1,2,3)$ to $Q(2,1,4)$ under the action of a constant force $F = (2i + j + k)$, work done by force is

A

2 J

B

4 J

C

16 J

D

8 J

Q 13

Wave nature and particle nature of photon is linked by :

A

Rest mass of photon

B

Wavelength of photon

C

Light speed

D

Momentum of photon

Q 14

All electrical appliances are connected in parallel to each other between the main line and neutral wire to get

A

Same current

B

Same current and a potential difference

C

Different current but the same potential difference

D

Different current and potential differences

Q 15

A car is moving in a circular track of diameter 100m at a constant speed of 40m/sec. Find the centripetal acceleration?

A

42 m/s²

B

52 m/s²

C

32 m/s²

D

30 m/s²

Q 16

When a light ray travels from the medium of low refractive index to a medium of high refractive index. Its....

A

speed decreases, frequency decreases, wavelength unchanged

B

speed decreases, frequency unchanged, wavelength unchanged

C

speed unchanged, frequency increases, wavelength decreases

D

speed decreases, frequency unchanged, wavelength decreases

Q 17

What is the SI Unit of EMF?

A

Ohm

B

Ampere

C

Volts

D

newton's

Q 18

If a particle have charge q is accelerated through a potential difference V ., then energy acquired by the particle is:...

A

$V \text{ --- } 2$

B

$V \text{ --- } q$

C

$qV \text{ ----- } 2$

D

qV

Q 19

Polarization explains light is

A

electric in nature

B

magnetic in nature

C

both a & B

D

none of these

Q 20

If N is the number of molecules of a gas in a container. Then number of moles can be calculated as:....

A

$N + N_A$

B

$N_A \text{ ----- } N$

C

$N \text{ ---- } N_A$

D

$N * NA$

Q 21

If a half wave rectifier is used to convert 50Hz AC into DC, then the number of pulses present in rectifier voltage is

A

25

B

50

C

100

D

75

Q 22

Our system stability is least affected by

A

Reactance of generator

B

Input torque

C

Losses

D

Reactants of transmission line

Q 23

Initial mass of water, at its boiling point, is 0.8 kg. 4 kW of heater is used to boil it completely. Assuming the specific latent heat of vaporization of water is 2MJ/kg, what is the time taken to vaporize all the water?

A

400 s

B

4000 s

C

250 s

D

2500 s

Q 24

A square loop of side 2 m is placed in a 5 T of magnetic field. What will be the related flux?

A

2.5 Weber

B

5 weber

C

10 weber

D

20 weber

Q 25

The Davisson Germer experiment is used to explain

A

interference

B

polarization

C

diffraction

D

none of these

Q 26

A loop of radius 1 m is placed on a inclined of 60 degree with the magnetic field of 100 T, corresponding flux will be

A

314 wb

B

107 wb

C

157 wb

D

435 wb

Q 27

Consider a peak rectifier fed by a 60-Hz sinusoid having a peak value $V_p = 100$ V. Let the load resistance $R = 10$ k Ω . Calculate the fraction of the cycle during which the diode is conducting

A

1.06 %

B

2.06%

C

3.18 %

D

4.82%

Q 28

Which of the following about C_p and C_v is correct?

A

$C_p + C_v = R$

B

$C_p = R - C_v$

C

$C_p + R = C_v$

D

$C_p = R + C_v$

Q 29

Blackbody shows a _____ spectra

A

continuous

B

discrete

C

both a) and b)

D

None of these

Q 30

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

Q 31

Average speed of a object after a completing a circle of 5 m radius in 5 seconds

A

2π

B

π

C

zero

D

10π

Q 32

Current that fluctuates periodically with time is

A

DC current

B

BC current

C

AC current

D

magnetic current

Q 33

For currents changing with time will produce ___ field

A

electrostatic

B

magnetostatic

C

electromagnetic

D

none of these

Q 34

A capacitor of capacitance C is connected with resistance R. The time constant of the circuit would be:...

A

RC

B

R / C

C

e^{RC}

D

R+C

Q 35

When a body moves in a circle of radius r with angular speed ω , its centripetal acceleration is

A

ωr

B

$\omega^2 r$

C

ωr^2

D

ω/r

Q 36

in case of simple pendulum total energy remains

A

variable

B

constant

C

infinity

D

zero

Q 37

_____ is conserved in pair production

A

charge

B

momentum

C

both a & B

D

none of these

Q 38

For skin cancer _____ is used

A

phosphorus-32

B

strontium-90

C

both

D

none of these

Q 39

A body moving along the circumference of a circle completes two revolutions. If the radius of the circular path is R, the total angular displacement covered is?

A

πr

B

$2\pi r$

C

zero

D

4π

Q 40

In a stationary wave, the phase angle between a node and a consecutive antinode is:

A

90 deg

B

180 deg

C

270 deg

D

150 deg

Q 41

Coulomb's law is true for

A

Atomic distance

B

Nuclear distance

C

Charge as well as uncharged particle

D

All the distances

Q 42

If 1.002×10^6 J of thermal energy is required to melt some ice at its melting point, what is the mass of ice that melts? Specific latent heat of fusion of ice is 334 J/g

A

1 kg

B

2 kg

C

3 kg

D

4 kg

Q 43

The down quark has charge_____

A

$1/2^-$

B

$1/2^+$

C

$1/3^-$

D

$2/3^+$

Q 44

Centrifugal force is a

A

real force

B

friction force

C

pseudo force

D

none of these

Q 45

When a wave comes across the boundary of two media, a part of it is reflected back. Which statement is true about reflected wave:

A

its wavelength changes depending on the nature of the boundary

B

its frequency changes depending on the nature of the boundary

C

its amplitude increases depending on the nature of the boundary

D

its phase may changes depending on the nature of the boundary

Q 46

If the clouds of earth behaves like a black body what will happen

A

no light will reach on surface

B

extra light will reach the surface

C

nothing will happen

D

some will reflect some will absorbed

Q 47

100 W heater is used for 5 minutes to heat 500 g of water. What is the change in temperature of water? Specific heat capacity of water is 4.2 J/gC .

A

140C

B

40C

C

0.2 C

D

14C

Q 48

In annihilation process particles move in

A

same direction

B

opposite direction

C

perpendicular direction

D

none of these

Q 49

Which of the following remains unchanged in transformer

A

Voltage

B

current

C

Power

D

Capacitance

Q 50

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp, Find its voltage.

A

12000 volts

B

15000 volts

C

20000 volts

D

300 volts

Q 51

Find the resistance if voltage of the circuit is 45 volts and current 30 Amp?

A

1.6 ohm

B

1.5 ohm

C

1.7 ohm

D

1.8 ohm

Q 52

100 W heater is switched on for 5 minutes to melt ice. What is the mass of ice that melts at 0C. Specific latent heat of fusion of ice is 334 J/g.

A

90 g

B

90 kg

C

1.5 g

D

1.5 kg

Q 53

A pendulum undergoes simple harmonic motion. The phase difference between the displacement and the acceleration of the particle is:

A

0

B

$\pi/2$

C

π

D

$3\pi/2$

Q 54

A monoenergetic electron beam with an electron speed of 5.20×10^6 m/s is subject to a magnetic field of 1.30×10^{-4} T normal to the beam velocity. What is the radius of the circle traced by the beam, given e/m for electron equals 1.76×10^{11} C/kg

A

22.7 cm

B

21.3 cm

C

20 cm

D

21.9 cm

Q 55

In a centre tap full wave rectifier if V_m is the peak voltage across the secondary of transformer, the maximum voltage across reverse bias is

A

V_m

B

$V_m/\sqrt{2}$

C

$2V_m$

D

$V_m/3$

Q 56

How many milligrams of tritium will remain after 49.2 years if the starting amount is 32 mg? The half-life of tritium is 12.3 years

A

8mg

B

2mg

C

1mg

D

4mg

Chemistry

Q 57

Allotropes are of same

A

Compounds

B

Molecules

C

Ions

D

Element

Q 58

Aldol condensation takes place in the presence of _____?

A

H_2SO_4

B

$\text{K}_2\text{Cr}_2\text{O}_7$

C

NaOH

D

$\text{H}_2\text{O}/\text{H}^+$

Q 59

Ethene is prepared from alcohol by _____?

A

Decomposition

B

Dehydration

C

Dehydroxylation

D

Dehalogenation

Q 60

The smallest alkane that shows isomerism is _____?

A

Ethane

B

Butane

C

Pentane

D

Isopropane

Q 61

Enzymes that catalyze hydrolysis:

A

Oxidoreductase

B

Hydrolases

C

Ligases

D

Transferases

Q 62

Which of the following term is constant in Boyle's law?

A

Pressure

B

Temperature

C

Volume

D

Density

Q 63

The chemical reactivities of elements, depend upon their characteristics electronic_____

A

shields

B

forces

C

configurations.

D

shells

Q 64

In tertiary alkyl halides, carbon atoms is attached to how many carbon atoms?

A

2

B

3

C

4

D

1

Q 65

The presence of several fine lines in line spectrum shows the presence of

A

shells

B

energy levels

C

sub shells

D

all of these

Q 66

Acetic acid derived from the word 'Acetum' which means_____?

A

Acetic acid

B

Bitter

C

Citric

D

Vinegar

Q 67

The strongest acid among the following is

A

carbolic acid

B

H₂O

C

Methanol

D

Butanoic acid

Q 68

In Haber's process volume percentage of ammonia in equilibrium mixture is

A

30%

B

32%

C

35%

D

33%

Q 69

In nature fatty acids occur as _____ of glycerol?

A

Acid halides

B

Binary compounds

C

Esters

D

Alkanes

Q 70

Which of the following enzymes present in yeast helps out in fermentation

A

Diastase

B

Maltase

C

Zymase

D

all of above

Q 71

In Industry Caustic Soda is formed by electrolysis of

A

Dilute NaCl Solution

B

Fused NaCl

C

Concentrated NaCl Solution

D

NaCl Solution

Q 72

What is the correct general formula of Grignard reagent?

A

RMX

B

R_2MgX

C

$RMgX_2$

D

RMgX

Q 73

Atoms arranged in regular and repeating manner is the characteristic of

A

ionic solids

B

molecular solids

C

crystalline solids

D

covalent solids

Q 74

What is the color of silver acetylide, $AgC\equiv CAg$?

A

Red

B

White

C

Brown

D

Pinkish

Q 75

Conversion of water into steam is a

A

Spontaneous Reactions

B

Exothermic Reaction

C

Reversible Reaction

D

Combustion Reaction

Q 76

Which type of forces are present between acetone and chloroform?

A

H-bonding

B

Dipole-Dipole forces

C

London dispersion forces

D

Debye forces

Q 77

The geometrical isomers in which similar groups on double bond carbon atoms are present on opposite sides are called as ___?

A

Trans isomers

B

Alkanes

C

Cis isomer

D

Positional isomers

Q 78

Wholar prepare urea from _____?

A

Ammonium cyanate

B

Ammonium acetate

C

Ammonium urease

D

Ammonium Carbonate

Q 79

State function is the _____property of system.

A

Microscopic

B

Dependent

C

Macroscopic

D

Constant

Q 80

The most abundant elements in earth's crust are

A

B & Al

B

Ca & Mg

C

Si & Al

D

All

Q 81

With impurities like P and S the open hearth furnace is lined with

A

SiO₂

B

Fe₂O₃

C

FeO

D

CaO, MgO

Q 82

Solubility of carboxylic acids _____?

A

Decreases with increase of volume

B

Decreases with increase in molecular mass

C

Increases with increase in molecular mass

D

None of these

Q 83

Which of the following compounds can be prepared by using grignard reagents?

A

Alkanes

B

Alcohols

C

Carboxylic acids

D

All of these

Q 84

An electron in an atom is completely described by its

A

2 quantum numbers

B

only one quantum number

C

four quantum numbers

D

3 quantum numbers

Q 85

NaNO₃ and CaCO₃ are

A

allotropes

B

amorphous

C

isomorphous

D

polymorphous

Q 86

Which one of the following has more unpaired electrons?

A

Mn

B

Cr

C

Cu

D

Zn

Q 87

Reduction of ketones produce _____?

A

Aldehydes

B

Methanol

C

Primary alcohols

D

Secondary alcohols

Q 88

How will the conditions be changed to prevent the volume of the given gas from expanding when its mass is increased

A

temperature and pressure increased

B

temperature is lowered and pressure decreased

C

temperature and pressure increased

D

temperature is lowered and pressure increased

Q 89

In a galvanic cell ,Zinc Sulphate left beaker acquires a

A

A negative charge

B

A net positive charge

C

Neutral

D

None of these

Q 90

Enthalpy is the sum of internal energy

A

Work done

B

Entropy

C

Potential Energy

D

Kinetic Energy

Q 91

Which of the following product is formed when phenol reacts with sulphuric acid 100 °C?

A

ortho-hydroxy benzene sulphonic acid

B

Para-hydroxy benzene sulphonic acid

C

o and p- benzene sulphonic acid

D

Both a and b

Q 92

In CCl₄ ,all C-CL bonds are _____ but molecule is __ overall

A

polar, nonpolar

B

nonpolar, neutral

C

polar, Neutral

D

neutral, on polar

Q 93

Which of the following compound is a Alcohol?

A

$\text{CH}_3\text{-O-CH}_3$

B

$\text{CH}_3\text{-OH}$

C

CH_3COOH

D

CH_3COCH_3

Q 94

In a carboxylic acid dimer, how many oxygens are present in the ring?

A

4

B

2

C

3

D

5

Q 95

How meta directing groups affect the Electrophilic substitution of benzene ring?

A

Increase electron density at ortho, para position

B

Decrease electron density at ortho and para positions

C

Make benzene less reactive

D

Both b and c

Q 96

The atoms of hemoglobin is heavier than H-atoms

A

67,000 times

B

68,000 times

C

65,000 times

D

69,000 times

Q 97

_____ is used to measure atomic radii

A

Gamma rays

B

alpha rays

C

X-rays

D

beta rays

Q 98

Most of the enzyme reactions are_____?

A

Reversible

B

Irreversible

C

Condensation

D

Oxidation

Q 99

Number of molecules in one dm³ of water will be almost

A

$18 \times 6.02 \times 10^{23}$

B

$55.6 \times 6.022 \times 10^{23}$

C

$18 \times 6.2 \times 10^{23}$

D

$2 \times 6.2 \times 10^{23}$

Q 100

Organic compounds are

A

Ionic

B

Non ionic

C

Non covalent

D

Covalent

Q 101

Fluorine has highest electronegativity value that is

A

3.4

B

4

C

1.2

D

2.6

Q 102

The catalyst used for ether formation by dehydration of alcohols

A

Cons HN_3 at 14°C

B

Cons H_2SO_4 at 14°C

C

Hot H_3PO_4 at 18°C

D

ZnCl₂ at 45 C

Q 103

S-S bond is present in which of the ion pairs

A

S₂O₇²⁻, S₂O₃²⁻

B

S₄O₆²⁻, S₂O₇²⁻

C

S₂O₇²⁻, S₂O₈²⁻

D

S₄O₆²⁻, S₂O₃²⁻

Q 104

What are Kekule structures?

A

The two isomers of benzene

B

The isomers of arenes

C

The two-resonance structure of benzene

D

The two-resonance structure of phenols

Q 105

Which metal is paramagnetic?

A

Cr

B

Mn

C

Fe

D

All of these

Q 106

All the three axes and three angles are of unequal length and none of the angle is 90°

A

cubic system

B

triclinic system

C

tetragonal system

D

monoclinic system

Q 107

Which one of the following H-bond is strong?

A

O-H

B

N-H

C

F-H

D

Cl-H

Q 108

If no of moles of products are more than those of reactants, volume in the equilibrium expression appears in

A

denominator

B

Numerator

C

As Exponent

D

None of these

Q 109

Aldehydes and ketones react with hydroxyl amine and produce?

A

Imine

B

Oxime

C

Aldole

D

Nitrile

Q 110

Quantum number values for 2p orbitals are

A

$n = 2, l = 1$

B

$n = 1, l = 2$

C

$n = 1, l =$

D

$n = 2, l =$

Q 111

The slope determined by drawing a right angled triangle drawn with tangent as hypotenuse will be same

A

with different sizes of triangles drawn

B

at different point on curve

C

at the start and end of curve

D

All of these

Q 112

Formation of $ZnSO_4$ from blue copper sulphate solution is a spontaneous

A

Oxidation reaction

B

Addition Reaction

C

Reduction Reaction

D

Redox reaction

Biology

Q 113

In cocci, three plane division result in formation of sarcine which is a

A

cuba of 8 cocci

B

square of 4 cocci

C

irregular structure

D

triangular 6 cocci

Q 114

The image represent by compound microscope is

A

real

B

virtual

C

real inverted

D

virtual inverted

Q 115

Which element has function in opening and closing of stomata?

A

K

B

Mg

C

Cu

D

Fe

Q 116

What type of enzyme is myosin?

A

ATP synthase

B

ADP synthase

C

ADP hydrolase

D

ATP hydrolase

Q 117

ABO blood group system was discovered in:

A

1811

B

1801

C

1911

D

1901

Q 118

Which of the following is true in case of induced fit model?

A

the substrate changes its shape slightly

B

the enzyme changes its shape slightly

C

none of them changes shape

D

both changes shapes

Q 119

The end or complete stop of the menstrual cycle is called:

A

Ovulation

B

menstruation

C

Fertilization

D

menopause

Q 120

The non substrate molecules that binds to the allosteric sites are called?

A

inhibitors

B

reactants

C

allosteric substrates

D

allosteric modulators

Q 121

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

Q 122

The Light reaction takes place in?

A

Chloroplast

B

Grana

C

Thylakoid

D

Stroma

Q 123

Inbreeding increases the frequency of which of the following?

A

heterozygous

B

genetic diversity

C

genetic linkage

D

homozygous

Q 124

All of the following are coelomates except which?

A

Deuterostomes

B

Hemichordates

C

Proterosomes

D

Aschelminthes

Q 125

In photosynthesis dark reaction, is called so because

A

It occurs in dark.

B

It does not require light energy.

C

It cannot occur during daytime.

D

It occurs more rapidly at night.

Q 126

Amoeboid movements and movement of cyclosis is due to?

A

microfilaments

B

microtubules

C

intermediate filaments

D

cytoskeleton

Q 127

The area on the left hemisphere related to speech is called?

A

Amygdala

B

Broca's area

C

hypothalamus

D

occipital lobe

Q 128

The type of plastids found in roots of plants _____ .

A

Chloroplasts

B

Chromoplasts

C

Leucoplasts

D

All of them

Q 129

One of the functions of the Neuroglial cells is to protect and support which of the following?

A

Nephrons

B

Myoid cells

C

Neurons

D

none of these

Q 130

What percentage of water is found in brain cells?

A

70

B

80

C

85

D

90

Q 131

Which of the following is NOT a function of Smooth Endoplasmic Reticulum (SER)?

A

Synthesis of steroid hormones from cholesterol.

B

Detoxification of harmful drugs.

C

Synthesis of phospholipids for plasma membrane.

D

Synthesis of membrane proteins.

Q 132

what is the microscope's ability to distinguish between separate objects that are close together?

A

magnification

B

contrast

C

resolving power

D

scanning power

Q 133

PS I has chlorophyll a molecule which absorbs maximum light of _____ nm?

A

600

B

650

C

680

D

700

Q 134

Virus attachment requires energy?

A

yes

B

no

C

provided by cell usually

D

provided by virus machinery

Q 135

A gas absent during pre-biotic environment was

A

SO₂

B

CO₂

C

NH₃

D

H₂

Q 136

The function of the centrosome is?

A

osmoregulation

B

secretion

C

protein synthesis

D

formation of spindle fibres

Q 137

The single main opening of the sponge cavity is known as?

A

Ostia

B

Osculum

C

Spongocoel

D

both a and b

Q 138

Loss of lung tissue is caused by

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

Q 139

Excessive increase in temperature of medium causes the enzyme molecule to have which of the following changes?

A

activate

B

unaffected

C

denature

D

all of these

Q 140

Which of the following use book lungs to breathe?

A

earthworm

B

scorpions

C

fish

D

all of these

Q 141

An insulin molecule is made up of how many polypeptide chains?

A

4

B

2

C

3

D

1

Q 142

What happens during muscle contraction to the length of each myosin and actin filament?

A

A band becomes short

B

I band elongates

C

There is no change in sarcomere

D

Z- lines get closer

Q 143

Which of the following statements is true concerning motor units?

A

Motor unit neurons only transmit one action potential during a contraction

B

Large motor units are innervated first in a muscle, followed by smaller units in order to have a smooth contraction

C

The neuron releases epinephrine across the synaptic cleft in order to stimulate an action potential in the sarcolemma

D

Finger muscles are typically composed of smaller motor units

Q 144

The total kinetic energy of water molecules is known as:

A

Water potential

B

Osmotic potential

C

Pressure potential

D

None of these

Q 145

Carbon dioxide is fixed in

A

light reaction

B

dark reaction

C

aerobic respiration

D

anaerobic respiration

Q 146

Which is an organelle that helps the sperm to penetrate the ovum?

A

Megalis

B

Zona pellucida

C

Acrosome

D

both a and b

Q 147

Which of the following organelles is not bound by a membrane?

A

ribosomes

B

ER

C

Mitochondria

D

nucleus

Q 148

Which lobe is involved in interpreting pain and touch in the body?

A

Frontal

B

Parietal

C

Temporal

D

Occipital

Q 149

Eukaryotes can share which of the following structures with prokaryotes?

A

cell wall

B

nucleoid

C

golgi

D

mitochondria

Q 150

_____ are among smallest known virus

A

picornavirus

B

parvoviruses

C

herpes virus

D

rotavirus

Q 151

Coenzyme Q is oxidised by which coenzyme in the ETC?

A

Coenzyme c

B

coenzyme q

C

cytochrome b

D

cytochrome a

Q 152

The process of intake of oxygen and release of carbon dioxide is classified as

A

Respiratory exchange

B

Gaseous exchange

C

Diffusion

D

Osmosis

Q 153

The actual remains or traces of organisms that lived in ancient geological times are known as?

A

Vestigial organs

B

fuel

C

fossils

D

all of these

Q 154

The gene for muscular dystrophy is X-linked. A female carrier and an unaffected male have one daughter together. The daughter has a son with an unaffected male. What is the probability that the son will not be affected?

A

25%

B

50%

C

75%

D

1

Q 155

What type of viruses are the polioviruses?

A

DNA enveloped virus

B

RNA enveloped virus

C

dna naked virus

D

rna naked virus

Q 156

The size of viruses as compared to bacteria is

A

much smaller

B

almost equal in size

C

much larger

D

All of Above

Q 157

The bacteriophage is shaped as?

A

rod

B

spherical

C

tadpole

D

helical

Q 158

In the molecular formula $C_x(H_2O)_y$, the value of x ranges from?

A

1000

B

2000

C

3 to 7000

D

3000 and more

Q 159

Acrosome is filled with which of the following?

A

lipids

B

hormones

C

digestive enzymes

D

all of these

Q 160

A muscle of fascicle is a:

A

bundle of connective tissue

B

bundle of myofibrils

C

bundle of muscle fibers

D

muscle cells

Q 161

Which tissue attaches the embryo to the wall of uterus?

A

Graafian follicle

B

Corpus luteum

C

Placenta

D

None of these

Q 162

What type of bonds exist between an enzyme and its prosthetic group?

A

Ionic

B

Covalent

C

Hydrogen

D

Metallic

Q 163

What is not a part of protoplasm?

A

Capsule of bacteria

B

Nucleus

C

Cell membrane

D

Mitochondria

Q 164

Rhythmic opening and closing of the stroma is controlled by?

A

temperature

B

oxygen

C

transpiration

D

internal clock in guard cells

Q 165

The location of virion assembly

A

Nucleus

B

Plasma Membrane

C

golgi complex

D

all of these

Q 166

Which of the following is non-cellular in most cases in animals?

A

Sclerenchyma

B

Chlorenchyma

C

Mesoderm

D

Mesenchyme

Q 167

Which of the following contains DNA?

A

slime

B

plasmid

C

ribosome

D

pili

Q 168

_____ refers to the breakdown or removal of the capsid

A

assembly

B

uncoating

C

integration

D

maturation

Q 169

A human cell from the ovary has 22 chromosomes and an X chromosome. It is which of the following?

A

egg

B

sperm

C

somatic cell

D

gamete

Q 170

Which one of the following is a non-protein group covalently bonded to a few respiratory enzymes among others?

A

Nicotine adenine dinucleotide

B

Flavin adenine dinucleotide

C

Nicotinamide adenine dinucleotide phosphate

D

All of the above

Q 171

The synthesis of ATP in the presence of oxygen is called?

A

respiration

B

calvin cycle

C

oxidative phosphorylation

D

chemiosmosis

Q 172

In mammals, which type of phenotypic expression will show recessive traits more frequently in males than females?

A

Incomplete dominance

B

Complete dominance

C

codominance

D

X-linked

Q 173

Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?

A

Meiosis

B

Fertilization

C

Ovulation

D

Oogenesis

Q 174

The fibrous tissue that connects the tooth and socket is called the:

A

radio-ulnar joints

B

tibiofibular joints

C

Gomphosis

D

periodontal ligament

Q 175

Which of the following acts as the thermoregulator region of the brain?

A

cerebellum

B

cerebrum

C

hypothalamus

D

thalamus

Q 176

The spinal cord consist of which type of cell bodies?

A

sensory neuron

B

motor neuron

C

connector neuron

D

all of these

Q 177

The idea that opposed the idea of abiogenesis was proposed by?

A

Robert Hooke

B

Robert brown

C

rudolph virchow

D

lorenz oken

Q 178

Pidgeon, platypus and panda are all representatives of which of the following?

A

Homeothermic

B

Hyperthermic

C

Poikilothermic

D

none of these

Q 179

Lymph vessels transfer the lymph into blood through:

A

subclavian artery

B

subclavian vein

C

Iliac artery

D

Iliac vein

Q 180

What would you predict would happen to pancreatic enzymes if they were introduced to the stomach?

A

Their function would decrease due to increased pH

B

Their function would decrease due to decreased pH

C

Their function would increase due to decreased proton concentration

D

Their function would increase due to decreased pH

English

Q 181

He _____ a mill in this town.

A

have

B

has

C

is having

D

was having

Q 182

She returned after _____ hour.

A

a

B

an

C

the

D

no article

Q 183

The earth _____ (seem) to be moving.

A

seem

B

seemed

C

seeming

D

seems

Q 184

I had

A

I'd

B

Id

C

Id'

D

I'hd

Q 185

I can't display more books! There aren't enough _____ to put them on.

A

leaves

B

cases

C

shelves

D

spaces

Q 186

_____ anyone _____ a pencil I could borrow?

A

do... have

B

Does.. have

C

Do.. has

D

Does.. has

Q 187

There _____ many objections to the plan.

A

is

B

are

C

was

D

be

Q 188

I _____(am) working all afternoon and have just finished the assignment.

A

had been

B

have been

C

am

D

shall be

Q 189

He was _____ in the rain then.

A

enjoys

B

enjoying

C

enjoy

D

will enjoy

Q 190

I have

A

I've

B

Ive

C

I'hve

D

Ih've

Q 191

I had just entered (A) / the station (B)/ than I met (C)/ my friends (D).

A

I had just entered

B

the station

C

than I met

D

my friends.

Q 192

They would not (A)/ have able to (B)/ plan the details of the trip (C)/ without your help. (D)

A

They would not

B

have able to

C

plan the details of the trip

D

without your help.

Q 193

Do you have _____ calculator? I need it to solve this sum.

A

a

B

an

C

the

D

no article

Q 194

Many of the city's narrow streets have been _____.

A

distinguished

B

widened

C

rehabilitated

D

doubled

Q 195

The national anthem _____ after the performance.

A

is sung

B

was sung

C

would sing

D

had sing

Q 196

Which of the sentences is correct?

A

Last year I go to India.

B

Last year I went to India.

C

Last year I am going to India.

D

Last year I will go to India.

Q 197

The sun _____ (shine) brightly.

A

shine

B

shined

C

shone

D

shining

Q 198

As he hated every minute of his life in the army, it is no wonder that he decided one day to his unit.

A

desert

B

dessert

C

avoid

D

suspend

Q 199

The students were (A)/ awaiting for (B)/ the arrival of (C)/ the chief guest. (D)

A

The students were

B

awaiting for

C

the arrival of

D

the chief guest.

Q 200

_____ ozone layer will disappear if we don't find _____ way to save it.

A

The...the

B

The...an

C

The..a

D

A... a

Logical Reasoning

Q 201

Statement: There is sharp decline in the production of oil seeds this year. The government has decided to increase the import quantum of edible oil.

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 some common cause

Q 202

Which one does not belong to others?

A

Apple

B

Mango

C

Cucumber

D

Orange

Q 203

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students?

Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

A

If argument I is strong

B

If only argument II is strong

C

If both I and II are strong.

D

If neither I nor II is strong

Q 204

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

Q 205

According to Oxfam report, Every Minute, _____ People Die of Hunger In The World?

A

10

B

11

C

15

D

Both A and B

Q 206

Statement: All the schools in the area had to be kept closed for most part of the week. Many parents have withdrawn their children from the local schools.

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

Q 207

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

Q 208

Statements (I) Many people prefer to shop at the big retail chains than the local grocery stores. (II) Retail chains offer a discount of more than 25% as compared to local grocery shops.

A

I is cause and II is effect

B

II is cause and I is effect

C

Both are independent causes

D

both are effects of independent causes

Q 209

Statement: Most of the steel producing companies in the country have made considerable profit during the last financial year. Many Asian countries have been importing huge quantities of steel from Pakistan

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 some common cause

Q 210

A four-person crew from Classic Colors is painting Mr. Zohaib's house. Ahmed is painting the front of the house. Maira is in the alley behind the house painting the back. Ayesha is painting the window frames on the north side, Hamza is on the south. If Zohaib switches places with Ayesha, and Ayesha then switches places with Hamza, where is Hamza?

A

in the alley behind the house

B

on the north side of the house

C

in front of the house

D

on the south side of the house

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