

PMC Paid Practice Test Bundle 2 Paper 6

Chemistry

Q 1

The properties of gases, liquids and solids can be understood by

A

atomic theory

B

potential molecular theory

C

kinetic molecular theory

D

none of these

Q 2

Joule is the unit of ?

A

Heat

B

Energy

C

Work

D

All of these

Q 3

BF_3 is an electron pair acceptor and completes its octet by accepting

A

an electron

B

pair of electron

C

3 electron

D

4 electron

Q 4

Which of the following reaction is concerted(single step) ?

A

SN1,E1

B

SN2,E1

C

SN2,E2

D

None of these

Q 5

Positive rays are produced when _____strike the molecules of a gas in a discharge tube

A

low speed neutrons

B

high speed neutrons

C

low speed electrons

D

high speed electrons

Q 6

Which of the following gives Markovnikov's product with Propene?

A

HBr

B

H₂SO₄/H₂O

C

HBr

D

All of these

Q 7

The organic compounds having all C-C single bonds are called as_____?

A

Alkanes

B

Alkenes

C

Alkynes

D

All of these

Q 8

During catalytic reduction of carbonyl compounds, hydrogen adds across?

A

C=C

B

C-H

C

C=O

D

All of these

Q 9

A mole of a substance contains _____ particles

A

6.2×10^{22}

B

6.22×10^{22}

C

6.02×10^{23}

D

6.5×10^{22}

Q 10

Fruity smell of organic compounds is because of _____?

A

Alcohols

B

Carboxylic acid

C

Ester

D

Acidhalids

Q 11

What is the reason for the reactivity of Grignard reagent?

A

Presence of Mg atom

B

Polarity of C-H bond

C

Polarity of C-Mg bond

D

Presence of electrophilic carbon

Q 12

What is the name of this compound?

A

Ethyl chloride

B

Ethene chlorine

C

Chloro ethane

D

Vinyl chloride

Q 13

Which of the following ion is stable ?

A

Ethoxide ion

B

Tertiary Alkoxide ion

C

Secondary anion

D

Phenoxide ion

Q 14

Production of Ammonia by Haber process is a

A

Endothermic Reaction

B

Exothermic Reaction

C

Irreversible Reaction

D

Redox Reaction

Q 15

Unit for rate of reaction is

A

Mole / litre

B

Moles / gram

C

Moles / Second

D

moles/dm³ s⁻¹

Q 16

What is the sum of all the energies present in a reaction mixture or system called as ?

A

Thermal energy

B

Total heat content

C

Internal energy

D

Enthalpy

Q 17

Glucose is converted into ethanol by the _____ enzyme present in yeast.

A

Invertase

B

Urease

C

Glycolysis

D

Zymase

Q 18

Which of the following is the correct IUPAC name of acetone?

A

Propanone

B

3-Propanone

C

2-Butanone

D

2-Propanone

Q 19

In a carboxylic acid dimer how many H-bonds are present ?

A

Three

B

Two

C

Five

D

One

Q 20

The covalent radius of an element is ___ of the single bond length b/w two similar atoms covalently bonded in a molecule

A

one third

B

one fourth

C

half

D

quarter

Q 21

As the force of attraction b/w the valence electron and the nucleus _____ with the increase in atomic radius, the electron affinity usually _____

A

decreases, increases

B

decreases, remains same

C

increases, decreases

D

decreases,decreases

Q 22

What is IVPAC name of isopropyl alcohol

A

2 - propanol

B

1 - propanol

C

2 - ethanol

D

2 - propane-1-ol

Q 23

At equilibrium the reaction mixture contains

A

Only Products

B

Reactants

C

Both

D

None of these

Q 24

Which of the following is called as refined form of mineral oil?

A

Coal tar

B

Petroleum

C

Crude oil

D

Kerosine oil

Q 25

Which one of the following is called as marsh gas?

A

Methane

B

Ethane

C

Propane

D

Butane

Q 26

If number of molecules of different gases are same at S.T.P ,the occupied volume will be

A

greater

B

same

C

smaller

D

twice

Q 27

Which of the following is protein digesting enzyme?

A

Trypsin

B

Pepsin

C

Protease

D

All of these

Q 28

Which of the following act as electrophile during nitration of benzene?

A

NO^+

B

NO_2^+

C

NO_3^+

D

HNO_2^+

Q 29

The general name of ore $\text{CaSO}_4 \cdot \text{H}_2\text{O}$ is

A

Gypsum

B

Dolomite

C

Calcite

D

Plaster of Paris

Q 30

The total energy of products in a chemical reaction is

A

equal to reactants

B

More than reactants

C

always zero

D

Less Than Reactants

Q 31

At high altitudes, the pilots feel uncomfortable breathing because the partial pressure of oxygen is lower than

A

16 torr

B

159 torr

C

158 torr

D

157 torr

Q 32

In NaCl crystal, chloride ions present at the face center are distributed in

A

One Unit Cell

B

8 Unit cells

C

4 Unit cells

D

2 Unit cells

Q 33

What is the relationship between boiling point and External pressure?

A

Boiling point increases if external pressure is increased

B

boiling point increases if external pressure decreases

C

Boiling point is not affected by external pressure

D

Boiling point decreases if external pressure increased

Q 34

The arrangement of sub shells or orbitals is according to _rule

A

$2(l+1)$

B

$l+1$

C

$n+l$

D

$2(n+l)$

Q 35

Which of the following reaction takes place when acetone reacts with HCN ?

A

Electrophilic addition

B

Nucleophilic elimination

C

Nucleophilic addition

D

Electrophilic addition

Q 36

The valency of an atom will be one if there is a sufficient gap b/w first and second

A

electron affinity

B

ionization energy

C

electronegativity

D

none of these

Q 37

Proteins are _____ in structure ?

A

Two dimensional

B

Three dimensional

C

Uni-dimensional

D

None of these

Q 38

The electrolysis of aqueous solutions of salt is complex because of the ability of water

A

to vaporize

B

to be oxidize and reduce simultaneously

C

to form hydrogen bonds

D

All of these

Q 39

When the central atom of coordination compound is sp^3d^2 hybridization the expected geometry will be

A

Tetrahedral

B

Square planar

C

Trigonal bipyramidal

D

Octahedral

Q 40

Which one of the following substances conduct electricity by the movement of ions?

A

Graphite

B

Copper

C

Molten sodium chloride

D

Mercury

Q 41

For the identification of isotopes of elements having solid state

A

Aston spectrometer

B

dempster's mass spectrometer

C

Soddy mass spectrometer

D

atomic spectrometer

Q 42

In case of $\text{HOCH}_2\text{CH}_2\text{CH}_2\text{COOH}$, from where numbering is started ?

A

OH group is given number 1

B

Carboxylic acid is given Number 1 position

C

COOH is given number 3 position

D

COOH is given number 4 position

Q 43

Slope of the curve can be determined by

A

Area under the curve

B

calculating length of curve

C

Drawing a tangent to the curve

D

All of these

Q 44

Reaction of ethylmagnesium bromide with acetone produces?

A

Primary alcohol

B

Secondary alcohol

C

Tertiary alcohol

D

Methyl alcohol

Q 45

The central atom along with ligands is called

A

Complex ion

B

Coordination sphere

C

Ligand

D

Complex compound

Q 46

Flavour of Orange is due to the presence of _____ ester?

A

Benzyl acetate

B

Octyl Acetate

C

Amyl Butyrate

D

Ethyl butyrate

Q 47

Carboxylase are example of which type of enzyme:

A

Hydrolases

B

Lyases

C

Transferases

D

Ligases

Q 48

Which one of them is a good conductor of electricity

A

ionic solids

B

molecular solids

C

network covalent solids

D

metallic solids

Q 49

Different type of hybridization takes place depending upon _____ of orbital's participating in hybridization

A

number

B

nature

C

structure

D

both A & B

Q 50

Which of the following reactions have first step similar with each other?

A

E_1, S_2

B

E_2, S_1

C

E_2, S_2

D

E_1, S_1

Q 51

Decomposition of Ozone has a very low value of equilibrium constant because of its

A

stability

B

reactivity

C

compressibility

D

Instability

Q 52

Which of the following is not a mixture of hydrocarbons

A

candle wax

B

kerosine oil

C

paraffin oil

D

vegetable ghee

Q 53

Dipole forces has direct relation with the _____?

A

Chemical properties of a substance

B

Kinetic properties of substance

C

Thermodynamic properties of substance

D

Nature of substance

Q 54

Isoelectronic species have same

A

electronic configuration

B

Ionic size

C

Reactivity

D

PH

Q 55

At which of the following temperature standard enthalpies are measured?

A

373K

B

298K

C

350K

D

All of these

Q 56

Electrolysis is a

A

Spontaneous Reactions

B

Oxidation-reduction reaction

C

Reduction Reaction

D

Oxidation Reaction

Physics

Q 57

One radian is equal to:

A

57.3 degrees

B

47.3 degrees

C

67.5 degrees

D

59.5 degrees

Q 58

Beta particle is actually a

A

fast moving electron

B

slow moving electron

C

electron at rest

D

none of these

Q 59

Centrifuge is used to purify

A

U

B

H

C

O

D

N

Q 60

What is the unit of decay constant?

A

second

B

minute

C

hour

D

(sec)⁻¹

Q 61

Magnetic Field lines move from _____

A

north to south

B

south to north

C

east to west

D

west to east

Q 62

Which of the following frequency of sound wave is audible

A

5 Hz

B

5000 Hz

C

2500 kHz

D

50 kHz

Q 63

As the wavelength of light used increases. the distance between bright fringes in the interference pattern:....

A

increases

B

decreases

C

remains same

D

none of these

Q 64

Which ion represents alpha particles

A

H⁺

B

C⁺

C

Na⁺

D

He⁺

Q 65

Which of the terms is related with thermodynamics

A

System

B

Surrounding

C

Boundary

D

All of these

Q 66

Work done by non conservative force is

A

Reversible

B

Non-Reversible

C

can be both

D

none of them

Q 67

A wire of uniform area of cross-section A and length L is cut into two equal parts, the resistivity of each part is

A

Doubled

B

Half

C

Remains the same

D

increase three times

Q 68

According to Faraday law EMF stands for

A

electromagnetic friction

B

electromagnetic force

C

electromagnetic function

D

none of these

Q 69

If the system goes from two different paths to same final state then Q_1 and W_1 and Q_2 and W_2 are heat absorbed and work done then

A

$Q_1 = Q_2$

B

$$W_1 = W_2$$

C

$$Q_1 + W_1 = Q_2 + W_2$$

D

$$Q_1 - W_1 = Q_2 - W_2$$

Q 70

A charge of $1\mu\text{C}$ is moving antiparallel to magnetic lines of force, then the magnetic force acting on charge is

A

0

B

vB

C

$vB \sin \theta$

D

qvB

Q 71

The resistance of a conductor at absolute zero (0 K) is

A

Almost zero

B

Almost infinite

C

No prediction at all

D

May increase or decrease

Q 72

Which of the following is an assumption of the kinetic model of an ideal gas?

A

gas is at high pressure

B

collision between particles are elastic

C

there are weak forces of attraction between particles in gas

D

total energy of particles is proportional to the temperature

Q 73

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A

$10\sqrt{2}$

B

$20/\sqrt{2}$

C

$20/\pi$

D

20π

Q 74

Acceleration of rolling object is zero at _____ point of hill

A

highest

B

lowest

C

middle

D

none of these

Q 75

The ratio: gravitational force ----- is always:... electric force

A

greater than unity

B

less than unity

C

equal to unity

D

zero

Q 76

the value of quantity G in the law of gravitation

A

depend on mass of Earth only

B

depends on radius of Earth only

C

depends on both

D

it independent of mass and radius of Earth

Q 77

The spectrum of white light lies

A

above 300 nm

B

below 300 nm

C

in between UV to IR

D

none of these

Q 78

If the direction of current is upward pointed by thumb, magnetic field is north side, than force will be

A

left

B

right

C

top

D

bottom

Q 79

Numbers of photon electrons emitted from metal depends upon :

A

Intensity of incident light

B

Energy of incident light

C

Wavelength of incident light

D

Frequency of incident light

Q 80

Which one of the following is not the unit of heat?

A

Calorie

B

Joule

C

Watt.sec

D

Watt

Q 81

Emf becomes equal to terminal potential difference when

A

circuit is closed

B

current is max

C

circuit is open

D

all of these

Q 82

The minute hand of a large clock is 3.0 m long. What is its mean angular speed

A

$1.4 \times 10^{-4} \text{ rads}^{-1}$

B

$1.0 \times 10^{-3} \text{ rad s}^{-1}$

C

$5.2 \times 10^{-3} \text{ rad s}^{-1}$

D

$1.7 \times 10^{-3} \text{ rad s}^{-1}$

Q 83

Unit of relative permeability is

A

henry

B

henry/m

C

dimensionless

D

henry/sq. m

Q 84

Transistors can be used as

A

half wave rectifier

B

full wave rectifier

C

both

D

none of these

Q 85

The magnetic field is parallel to a surface, then the magnetic flux through the surface is :

A

zero

B

small but not zero

C

infinite

D

larger than 1

Q 86

The concept of work function was given by

A

Bohr

B

Einstein

C

Rutherford

D

none of these

Q 87

An a.c. generator consists of a coil of 50 turns and an area 2.5 m^2 rotating at an angular speed of 60 rad s^{-1} in a uniform magnetic field of 0.3 T between two fixed pole pieces. What is the flux through the coil, when the current is zero

A

Maximum

B

Minimum

C

Zero

D

Independent

Q 88

The activity of a radioactive isotope decreases from 8000 to 10000 in 60 days. The half life of isotope will be

A

10 year

B

20 years

C

30 years

D

40 years

Q 89

The direction of which angular quantity cannot be measured by right hand

A

angular velocity

B

angular acceleration

C

torque

D

all of these

Q 90

Which water is used to reduce the speed of fast moving neutrons

A

Salty water

B

Pure water

C

heavy water

D

muddy water

Q 91

Radioactive material decays by simultaneous emission of two particles with respective half-lives 1620 and 810 years. What is the time, in years, after which one-fourth of the material remains?

A

2430 years

B

1080 years

C

3240 years

D

4260 years

Q 92

For a parallel plate capacitor, the energy density is:.....

A

$\frac{1}{2} \epsilon \epsilon_0 E$

B

$\frac{1}{2} \epsilon \epsilon_0 E^2$

C

$\epsilon \epsilon_0 E$

D

$\epsilon \epsilon_0 E^2$

Q 93

Which of the following is not as example of adiabatic process?

A

The rapid escape of air from a burst tyre

B

The rapid expansion and compression of air through which a sound wave is passing

C

Cloud formation in the atmosphere

D

slow compression or expansion of gas

Q 94

A car travels 30 m toward east, then it takes turn and travels 40 m towards north. It takes 50 seconds. Its average velocity is:....

A

7/5 m/s

B

1 m/s

C

1/5 m/s

D

5 m/s

Q 95

Superposition of two waves having same frequency, same amplitude and travelling in the opposite direction, is called:

A

interference

B

diffraction

C

beats

D

stationary waves

Q 96

Electrical power of a battery is defined as the rate of

A

electrical energy consumed by the battery

B

Electrical energy transferred by the battery

C

both

D

none of these

Q 97

Electric potential energy per unit charge is:...

A

electric flux

B

electric field

C

electric potential

D

electric intensity

Q 98

The wavelength of beta rays is measured by

A

interference

B

polarization

C

absorption

D

diffraction

Q 99

What is the SI Unit of Potential difference?

A

Volts

B

Coulomb

C

Meter

D

newton's

Q 100

In a periodic wave, the distance between second and fifth crests is 15 cm, what is the wavelength of the wave?

A

45 cm

B

5 cm

C

1/5 cm

D

1/3 cm

Q 101

100 W heater is used for 5 minutes to heat some water from 20°C to 50°C. What is the mass of water which is heated? Specific heat capacity of water is 4.2 J/g°C.

A

4 g

B

40 g

C

240 g

D

24 g

Q 102

A galvanometer acting as a voltmeter will have a coil with

A

a high resistance in parallel

B

a high resistance in series

C

a low resistance in parallel

D

a low resistance in series

Q 103

Is it possible to visualize magnetic flux lines

A

yes directly we can see with eyes

B

we need microscope

C

we need telescope

D

All cases are not possible

Q 104

A stationary wave is formed in a pipe which is open at one end. If length of pipe is 5 cm, then what is the maximum possible wavelength of the wave.?

A

5 cm

B

10 cm

C

15 cm

D

20 cm

Q 105

In which situation, distance is three times than its displacement?

A

object moves and come back to its initial position

B

object moves 20 m towards east and 10 m towards west

C

object moves 20 m towards east and 10 m towards south

D

object moves 20 m towards north and 10 m towards west

Q 106

If two particles collide with one anti particle the resultant will give

A

one particle, one anti particle

B

total annihilation

C

one antiparticle only

D

none of these

Q 107

Consider two capacitors with capacitance $2\mu\text{F}$ and $4\mu\text{F}$. With which type of connection will the $2\mu\text{F}$ capacitor have a greater amount of stored energy than the $4\mu\text{F}$ capacitor?

A

series

B

parallel

C

either series nor parallel

D

neither series nor parallel

Q 108

A full wave rectifier uses load resistor of 1500Ω . Assume the diodes have $R_f=10\Omega$, $R_r=\infty$. The voltage applied to diode is 30V with a frequency of 50Hz . Calculate the AC power input

A

358.98mW

B

275.2 mW

C

145.76 mW

D

456.78 mW

Q 109

Power transformers have maximum efficiency at

A

no load

B

full load

C

half load

D

double load

Q 110

The half life of U-238 against alpha decay is 4.5×10^9 years. Find the activity of 1 kg of U-238?

A

2.4×10^{-4} Ci

B

3.34×10^{-4} Ci

C

4.34×10^{-4} Ci

D

2.4×10^{-5} Ci

Q 111

In which process the net work done is zero?

A

Cyclic

B

Free expansion

C

Isochoric

D

Adiabatic

Q 112

Angular displacement becomes zero when

A

velocity is zero

B

radial distance is zero

C

any of a or b

D

it can never be zero

Biology

Q 113

Higher turgor pressure in a plant cell is maintained by?

A

Higher ionic concentration inside vacuoles

B

Higher osmotic pressure of the cell vacuole

C

Large number of vacuoles in a plant cell

D

both a and b

Q 114

In most triploblasts after embryonic development the three layers are represented as?

A

Separate layers of cells

B

Structures associated with them

C

Their functions in body

D

Structures formed from them

Q 115

The complete, mature and infectious particle is known as?

A

Capsid

B

Virion

C

Bacteriophage

D

Nucleus

Q 116

The random change in allele frequencies is known as?

A

genetic drift

B

diversity

C

linkage

D

all of these

Q 117

Ribonucleoprotein particles are the name of?

A

RNA

B

DNA

C

Nucleus

D

Eukaryotic ribosomes

Q 118

A condition with abnormal amount of fats is called:

A

anorexia

B

botulism

C

piles

D

obesity

Q 119

Nicotinamide adenine dinucleotide is an example of:

A

Coenzyme

B

Holoenzyme

C

Cofactor

D

Apoenzyme

Q 120

Which of the following has a chain-like arrangement?

A

Streptobacillus

B

Streptococci

C

both a and b

D

none of these

Q 121

Which is not the characteristic of triploblasts?

A

They may be coelomate pseudocoelomate or acoelomate

B

They are included in grade bilateria

C

All of them have digestive system

D

All of them have blood vascular system

Q 122

The membrane of vacuole is called:

A

Tonoplast

B

Plasma membrane

C

Epidermis

D

Both B and C

Q 123

When one can hydrolyze the proteins, these could be the products

A

amino acids

B

nucleotides

C

fatty acids

D

monosaccharides

Q 124

Gametes in animals are produced by which of the following?

A

mitosis

B

meiosis

C

fission

D

all of these

Q 125

Quantitative study of energy relationships in biological systems obeys?

A

Bioenergetics

B

Laws of thermodynamics

C

Laws of thermochemistry

D

Laws of chemical energetic

Q 126

The term that should be last in the reflex sequence is:

A

Receptor

B

Effector

C

Sensory neuron

D

Motor neuron

Q 127

Two species can avoid competition, and better use the environment's resources by occupying different?

A

adaptations

B

polymorphism

C

niches

D

specialization

Q 128

In uncompetitive inhibition, the inhibitor binds with

A

enzyme

B

substrate

C

ES-complex

D

all of these

Q 129

The number of spermatids produced from primary spermatocytes is?

A

1

B

2

C

3

D

4

Q 130

Proteins and lipids are converted into glycolipids and glycoproteins by adding carbohydrates by?

A

ribosomes

B

cytoplasm

C

golgi apparatus

D

endoplasmic reticulum

Q 131

Where does the bacteriophage replicate?

A

Human

B

Animal

C

Bacteria

D

Horse

Q 132

A plant cell wall is mainly composed of which of the following?

A

protein

B

lipid

C

cellulose

D

starch

Q 133

Chlorophyll molecule contains which ion as a central metal ion?

A

Fe²⁺

B

Zn²⁺

C

Cu²⁺

D

Mg²⁺

Q 134

The cell wall is not present in which of the following bacteria?

A

cocci

B

bacilli

C

Mycobacterium

D

Mycoplasma

Q 135

What is the viral nucleocapsid made up of?

A

genome and capsid

B

capsid and spikes

C

envelope and capsid

D

capsomere and genome

Q 136

What does ATP provide during photosynthesis?

A

Mechanical energy

B

chemical energy

C

physical energy

D

all of these

Q 137

Chromatin body in prokaryotes can also termed as

A

nuclear body

B

nuclear region

C

nucleoid

D

all of Above

Q 138

Which of the following types of bacterial reproduction is most similar to mitosis?

A

transduction

B

transformation

C

binary fission

D

conjugation

Q 139

Darwin's Theory of evolution by natural selection is based on all of the following postulates except ?

A

some individuals are more successful in surviving and reproduction than others

B

individuals within a population are variable

C

the survival and reproduction of individuals is not random

D

the survival and reproduction of individuals is random

Q 140

How is pyruvate produced in anaerobic conditions?

A

alcoholic fermentation

B

lactic acid fermentation

C

respiration

D

both a and b

Q 141

The number of RBCs at high altitude will:

A

Increase in size

B

Increase in number

C

Decrease in size

D

Decrease in number

Q 142

Which one gives blue colour when subjected to an iodine test?

A

starch

B

glycogen

C

cellulose

D

none of these

Q 143

Lock and Key model was proposed by which of the following?

A

Koshland

B

Robin Williams

C

Rudolph Virchow

D

Emil Fischer

Q 144

Where is the main blood vessel of arthropods usually found?

A

Lies on ventral side

B

Lies on lateral side

C

Is not present

D

Lies on dorsal side

Q 145

In human only one ovum is usually discharged from the ovary at one time this phenomenon is called?

A

ovulation

B

menstruation

C

oestrous

D

all of these

Q 146

What type of viruses are the HBV virus?

A

DNA Enveloped virus

B

RNA enveloped virus

C

DNA Virus

D

RNA naked virus

Q 147

Hemoglobin can carry:

A

1 molecule of oxygen

B

2 molecules of oxygen

C

3 molecules of oxygen

D

4 molecules of oxygen

Q 148

A hydrostatic skeleton is present in _____ .

A

Arthropods

B

Fishes

C

Annelids

D

Nematodes

Q 149

Which of these cycles operate in human females?

A

Oestrous cycle

B

Menstrual cycle

C

both a and b

D

none of these

Q 150

What was the source of hydrogen for first photosynthetic organisms?

A

water

B

Hydrogen present in soil

C

Hydrogen sulphate

D

Hydrogen sulphide

Q 151

Polychaeta have which of the following organs?

A

tentacles

B

palps

C

eyes

D

all of these

Q 152

The disease characterized by the breakdown of alveoli is called:

A

Asthma

B

Tuberculosis

C

Emphysema

D

A and B

Q 153

How is the HIV virus transmitted?

A

Sexual contact

B

Blood

C

Breast feeding

D

all of the above

Q 154

Nematoda is a taxon of the ranking:

A

Kingdom

B

Sub-kingdom

C

Phylum

D

Class

Q 155

The dorsal root of spinal cord is:

A

Sensory

B

Motor

C

Mixed

D

All A,B and C are correct

Q 156

Which of the following statements about chordates is true?

A

They are protostomes

B

All chordates are vertebrates

C

They lack a coelom

D

Their anus forms from the blastopore

Q 157

Which of the following statements are true about the capsomeres?

A

It is an individual unit of the capsid

B

It is a viral protein for replication

C

a. It is a unit of nucleic acid in viruses

D

All of the above

Q 158

Which of the following is true about muscle structure?

A

Myofibrils make up about 15% of the contents of a muscle fibre.

B

Actin filaments are arranged so that 6 actin filaments surround each myosin filament.

C

Both A and B are correct

D

None of these

Q 159

Which bond provides stability to complex carbohydrate molecules?

A

C-H

B

C-N

C

C-O

D

C-C

Q 160

The G3P is end product of this process

A

Kreb's cycle

B

Calvin cycle

C

chemiosmosis

D

electron transport chain

Q 161

Biorhythms are called circadian which means about one day so they are also called?

A

diurnal tempo

B

diurnal time

C

diurnal rhythms

D

all of these

Q 162

The animals in which there are separate male and female individuals are called?

A

unisexual

B

bisexual

C

asexual

D

hermaphrodite

Q 163

The specificity of an enzyme is due to which of the following?

A

protein nature

B

active site

C

globular shape

D

cofactor

Q 164

The brain portion that is reduced in humans is:

A

Forebrain

B

Midbrain

C

Hindbrain

D

Limbic system

Q 165

Which of the following blood group is always heterozygous?

A

A

B

B

C

AB

D

O

Q 166

A scientist has discovered a new species of flower in which purple coloration is dominant to white. He wishes to know the genotype of a specific purple flower. Which of the following crosses would give him a definitive answer for the purple flower genotype?

A

Unknown purple x Homozygous purple

B

Unknown purple x Unknown purple

C

Unknown purple x White

D

none of these

Q 167

A motor neuron and all the muscle fibers it supplies is called a(n) _____.

A

motor unit

B

neuromuscular junction

C

neural unit

D

microtubules

Q 168

The T-lymphocytes and B-lymphocytes are the major cells of the:

A

thymus

B

lymph nodes

C

adrenal glands

D

lymphatic vessels

Q 169

The world No Tobacco Day is observed on

A

20 May

B

31 May

C

1 May

D

29 July

Q 170

Acetyl CoA completely oxidizes to Carbon dioxide and liberate ____

A

NADH and FADH

B

NADP and FADP

C

ATP

D

ATP, NADH and FADH₂

Q 171

Which substances can cross plasma more easily?

A

starch

B

protein

C

lipid soluble

D

ions

Q 172

Which of the following would most greatly increase the activity of an enzyme functioning in the small intestine?

A

Decrease the temperature

B

Increase the amount of enzymes

C

Decrease the pH

D

Increase the amount of substrate

Q 173

When a hemophilia carrier woman marries a normal man, who among her offspring may be affected:

A

All her children

B

Half of her daughters

C

All her daughters

D

Half of her sons

Q 174

The several distinct arrangements of cocci is based on their

A

long chain of cells

B

planes of division

C

grape like clusture shape

D

All of Above

Q 175

Enzymes are globular proteins because:

A

They have a primary structure.

B

They have a secondary structure.

C

They have a tertiary structure.

D

All of the above.

Q 176

A compound produced as a result of a chemical reaction of an alcohol with an acid in which water molecule is released is called?

A

monosaccharide

B

fatty acid

C

nucleic acid

D

neutral lipid

Q 177

Which type of sensory structures carrying the touch sensations are present in papillae extending into ridges of the fingertips?

A

Hair end organs

B

Pacinian corpuscles.

C

Meissner's Corpuscles

D

all of these

Q 178

Which of these joints allow little or no movement?

A

Synovial Joints

B

Ball and Socket Joint

C

Cartilaginous Joints

D

Cartilaginous Joints

Q 179

Example of a homologous organ is represented best by which of the following?

A

Wing of an insect, wing of a bird

B

Leg of a dog, leg of a spider

C

The arm of a human, wing of a bird

D

all of these

Q 180

Cytoplasmic streaming movement causes flow of all of the following except?

A

Glucose and salts

B

mitochondria

C

Golgi

D

RER

English

Q 181

When I heard the news about you, I _____ (become) anxious.

A

become

B

became

C

will be

D

be

Q 182

Choose the correct sentence.

A

Who isn't here yet asked Parveen.

B

"Who isn't here yet?" asked Parveen.

C

Who isnt here yet? asked Parveen.

D

"Who isnt here yet?" asked Parveen.

Q 183

How we _____ to ageing is a choice we must make wisely.

A

respond

B

absolve

C

discharge

D

overlook

Q 184

_____ apple a day keeps the doctor away.

A

A

B

An

C

The

D

No article

Q 185

Choose the correct spelling of the word

A

around

B

arond

C

arund

D

around

Q 186

Some of the books on the table _____ to me.

A

belong

B

belonging

C

belongs

D

was belong

Q 187

We _____ (laugh) at the funny clowns.

A

laugh

B

laughs

C

laughing

D

laughed

Q 188

What is the tense of this question? What will you do when this course finishes?

A

Present

B

past

C

future

D

none of these

Q 189

Mrs Rose planning to do a course in Biology next week.

A

are planning

B

plans

C

with a plan

D

planning

Q 190

In most countries, children start primary school _____ the age of six.

A

in

B

on

C

at

D

to

Q 191

coveted

A

worn

B

greatly desired or envied

C

eager

D

detested

Q 192

We _____ a week in Italy each year.

A

spend

B

spending

C

spends

D

are spending

Q 193

Father _____ me not to go out in the cold.

A

advised

B

advice

C

advise

D

advised

Q 194

Choose the correct sentence.

A

Ariel is trying hard in school this semester, her father said.

B

Ariel is trying hard in school this semester,' her father said.

C

Ariel is trying hard in school this semester?' her father said.

D

Ariel is trying hard in School this semester,' her father said.

Q 195

A bouquet of flowers _____ required for the event.

A

are

B

have

C

has

D

is

Q 196

Choose the correct spelling of the word

A

coridor

B

cooridor

C

corridor

D

coridoor

Q 197

Which brand do you _____, Honda or Toyota?

A

rather

B

eat

C

prefer

D

wear

Q 198

Choose the correct sentence.

A

Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B

Mrs Sajjad who was sitting behind the desk gave me a big smile.

C

Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D

Mrs Sajjad, who was sitting behind the desk gave me a big smile?

Q 199

Choose the correct tense: "He goes to school".

A

Present

B

Past

C

Future

D

None

Q 200

You can get (A)/ all the information (B) you want (C) from this book. (D)

A

You can get

B

all the information

C

you want

D

from this book.

Logical Reasoning

Q 201

Statements : All film stars are playback singers. All film directors are film stars.

Conclusions : I. All film directors are playback singers. II. Some film stars are film directors.

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follow

Q 202

Fact 1: Most stuff toys are stuffed with beans Fact 2: There are stuffed bears and stuffed tigers Fact 3: Some chairs are stuffed with beans If the above three statements are facts then which of the following statement will also be a fact I.

Only children's chairs are stuffed with beans II. All stuffed tigers are stuffed with beans III. Stuffed monkeys are not stuffed with beans

A

I only

B

II only

C

III only

D

None of them is a fact

Q 203

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 204

The area of a triangle will be when $a = 1\text{ m}$, $b = 2\text{ m}$, $c = 3\text{ m}$, a , b , c being lengths of respective sides.

A

0 sq m

B

3 sq m

C

2 sq m

D

Both A and B

Q 205

Secondary is to informal as honest is to

A

Frank

B

Sincere

C

Truthfull

D

Wicked

Q 206

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A

Four

B

Seven

C

Five

D

eight

Q 207

Statement: Assessed the value of tea exports this year over all the earlier years due to an increase in demand for quality tea in the ket. There is an increase in demand of coffee in the domestic market during the last two years.

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 208

Country with the highest muslim population is _____

A

Pakistan

B

Malaysia

C

Indonesia

D

Iran

Q 209

Statement: The university authority has instructed all the colleges under its jurisdiction to ban use of all phones inside the college premises. Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances caused by cell phone ringtones inside the classrooms.

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

Complete the series A25, B625, C15625, _____?

A

D390625

B

D364748

C

D390524

D

D390525

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