CHM103

Question

The following are correct for partially miscible liquids except _____.

Answer

decrease in temperature cannot make them completely miscible

Question

The separation of an ideal solution into its pure components can be achieved through _____ .

Answer

fractional distillation

Question

Which of these solutions will boil faster?

Answer

solutions with high vapour pressure

Question

A mixture containing two completely miscible liquids will boil under which of these conditions?

Answer

total pressure equals atmospheric pressure

Question

Which of the following is false with regards to a mixture of acetone and chloroform?

Answer

there will be no interaction and so no bond is formed

Question

On the account of the physical state of a solute and solvent, solutions can be said to be of _____. Types.

Answer

9

Question

Which of these is not true of an ideal binary solution?

Answer

It is independent of volume of constituents

Question

Based on Bond theory, a metallic solid is taken to have _____ between its adjacent atoms.

Answer

covalent bond

Question

The density of a crystal is dependent on the following except _____.

Answer

number of molecules

Question

A simple cubic cell has _____ net atom per unit cell.

Answer

only one

Question

Convert 82cm to its equivalent value in SI unit.

Answer

0.82m

Question

The Bragg equation is useful in the _____ studies of X-rays by crystals.

Answer

Diffraction

Question

Which of the following is correct?

Answer

When serving additional utensils or napkin, place them in a small plate to avoid direct contact with hand.

Question

The SI unit of a physical quantity should be/have _____ .

Answer

space between the magnitude and the unit symbol of a physical unit

Question

Suppose 15.0g of substance Y occupies a volume of $37cm^{3}$, what will be its density in SI units?

Answer

$405.40kg/m^{3}$

Question

The following are dimensions of gas constant except _____.

Answer

mass of substance

Question

Electrical conductance can be said to be _____ proportional to electric resistance.

Answer

inversely

Question

Which of these is the odd one out?

Answer

Volume

Question

Temperature is _____ related to heat.

Answer

directly

Question

The SI unit for Luminous intensity is _____.

Answer

candela

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An atom at the corner of a unit cell can be shared by _____ unit cells.

Answer

8

Question

Suppose an atom is on the face-centre of a unit cell, then it is _____.

Answer

shared by two unit cells

Question

Crystal planes are represented by certain numbers known as _____.

Answer

Miller indices

Question

The formation of a solid from a solution is known as _____.

Answer

precipitation

Question

Which of the following is not a separation technique?

Answer

Titration

Question

The following can be said of a pure substance except _____.

Answer

does not contain impurities but is heterogenous

Question

Why is it reasonable to tabulate data or results in an experiment?

Answer

all of the options

Question

The following are involved in experiments except _____.

Answer

none of the option

Question

The Ostwald viscometer is used in measuring _____.

Answer

viscosity

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CHM102

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The saturated hydrocarbons contain the carbon and hydrogen atoms linked to each other by single bonds and are called _____.

Answer

Alkanes

Question

The _____ provide a backbone to which various functional groups may be attached to yield an enormous variety of organic compounds.

Answer

Isomers

Question

_____are the compounds that have identical molecular formulas but differ in the ways in which the atoms are bonded to each other.

Answer

Isomers

Question

Compounds that differ from each other in their molecular formulas by the unit –$$ [CH_{2}]$$- are called members of a _____ series.

Answer

Homologous

Question

In allene the central atom is---------- hybridized and the terminal atoms are ---------- hybridized

Answer

Sp, $$Sp^{2}$$

Question

The addition of ozone to an alkyne produces _____.

Answer

Ozonide

Question

The reaction between an alkyl halide and sodium metal to form an alkane is called _____ reaction.

Answer

Wurtz

Question

A benzene ring with a methyl group at position one and nitro group at position three is _____

Answer

p−nitrotoluene

Question

The first product in fractionation of petroleum is called _____.

Answer

Natural gas

Question

Increase in number of carbon atoms results in the following effects EXCEPT _____.

Answer

Melting point increases

Question

A catalyst mixed with a selective inhibiting agent is called _____ catalyst.

Answer

Poisoned

Question

Reactions that lead to the attachment of an alkyl group to a molecular fragment are called _____.

Answer

alkylation

Question

In the _____ alkynes, the triple bond lies at the end of the carbon chain.

Answer

terminal

Question

Hydrocarbons can be classified as _____.

Answer

aliphatic, alicyclic, aromatic

Question

_____ best describes the functional group of an alkene.

Answer

C=C

Question

_____ can be defined as an atom or group of atoms in a molecule which exhibits characteristic chemical properties

Answer

functional group

Question

Addition of ethyne to sodamide in ether yields sodium etynide and one of the following compounds

Answer

ammonia

Question

All but one of these is involved in alkylation

Answer

Diels-Alder reagent

Question

One of the statements is not true of dienes.

Answer

divided into two main classes depending on the relative positions of the two double bonds in the molecule:

Question

One of these statements is not true

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CIT104

Question

_____ are system software to facilitate editing of text and data

Answer

Editors

Question

Computers that combine both measuring and counting are called ___ computers

Answer

Hybrid

Question

_____ computers operates essentially by counting

Answer

Digital computer

Question

What is the most common tool used to restrict access to a computer system?

Answer

Passwords

Question

A modem is connected to:

Answer

a telephone line

Question

Which of the following is the smallest storage?

Answer

None of these

Question

A DVD is an example of _____

Answer

optical disc

Question

On-line real time systems become popular in _____ Generation

Answer

Third Generation

Question

The primary function of the _____ is to set up the hardware and load and start an operating system:

Answer

BIOS

Question

A _____ is a microprocessor -based computing device.

Answer

personal computer

Question

SMPS stands for_____

Answer

Switched mode Power Supply

Question

_____ translates and executes program at run time line by line

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Answer

Interpreter

Question

A computer program that translates one program instructions at a time into machine language is called ___

Answer

Interpreter

Question

A dedicated computer ___

Answer

is assigned one and only one task

Question

Personal computers use a number of chips mounted on a main circuit board. What is the common name for such boards?

Answer

Motherboard

Question

Who designed the first electronics computer – ENIAC?

Answer

J. Presper Eckert and John W Mauchly

Question

In latest generation computers, the instructions are executed

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Answer

Both sequentially and in parallel

Question

Microprocessors as switching devices are for _____ generation computers

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Answer

Fourth Generation

Question

Chief component of first generation computer was ____

Answer

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CHM192

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The following are true of NaOH except _____.

Answer

It is hygroscopic

Question

Volume of liquids are measured with _____.

Answer

Graduated cylinder

Question

Which of the following is not employed in heating ?

Answer

Drying agent

Question

Using an unclean volumetric glassware during experiment will _____.

Answer

Reduce precision

Question

All of the following can be used to separate liquids from solids except _____.

Answer

Distillation

Question

Glassware are used for experiments in the Chemistry laboratory because _____.

Answer

They are relatively inert, transparent and more heat-resistant

Question

Separatory funnel is used to separate _____.

Answer

Two immiscible liquids

Question

One of the disadvantages of wearing loose sleeves to the laboratory during a practical class is _____.

Answer

They can sweep flasks from the laboratory bench

Question

When acid is spilled in the laboratory it should be _____.

Answer

Neutralised with sodium bicarbonate

Question

The function of placing wire gauze between a vessel containing a substance to be heated and a burner is _____.

Answer

To provide support and disperse heat

Question

Flammable solvents in a mixture should be boiled away in a _____.

Answer

fume cupboard

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A Buchner funnel is mainly used for _____.

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vacuum filtration

Question

Most fire in the laboratory can be prevented by the use of _____.

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Common sense

Question

All the following explodes on contact with water except _____.

Answer

Aluminium

Question

The following are the first things to be done when determining the density of an unknown metal cube except _____.

Answer

Measure the height and width of the cube

Question

A metal sphere weighing 19.48g is added to 20ml of water in a graduated cylinder. If the density of the metal is 4.50g/ml, what will be the new level of water in the graduated cylinder?

Answer

24.33ml

Question

You are given a bottle that contains 4.59cm3 of a metallic solid. The total mass of the bottle is 36.66g. The empty bottle weighs 14.23g. What is the density of the solid?

Answer

4.67 g/cm3

Question

The following interaction(s) are responsible for holding molecules in a liquid together in a defined volume except _____.

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metallic bonding

Question

The vapor pressure exerted by a liquid is _____ to its temperature.

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BIO192

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Riccia and Marchantia are

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The first division in the plant kingdom are the ---------

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The plant kingdom includes the Bryophytes, Pteridophytes, the Gymnosperms and the Angiosperms. They all possess chlorophyll and are therefore -----

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Answer

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Question

Which of the following is not a phyla of the fungi kingdom?

Answer

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Question

Which of the following is not a diagnostic feature of fungi?

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They have true roots

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The collection of hyphae is called -------

Answer

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Question

Which of the following divisions of living organism posses chlorophyl?

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Question

Which of the following is not an adaptive feature of the slime mould?

Answer

Possession of phloem tissues

Question

All of these are groups of slime moulds except

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Slime trap

Question

Slime molds are often brightly-colored in

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A membrane covering that protects the paramecium like skin is called -----

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Which of these is true?

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Which of the following is an example of the division Ciliophora?

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Amoeba belongs to whiich of these divisions of Protozoans?

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Which of the following is not a division of the protozoans?

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The ---------- are the first group of eukaryotic organisms

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BIO102

Question

The hind limbs of -------- have clawed digits modified for walking, perching , hopping, running or swimming

Answer

aves

Question

The head is small and rounded, whole body is oval and sreamlined. These description best describe

Answer

a bird

Question

Which of the following is not an example of a cartilaginous fish?

Answer

Tilapia

Question

Which of these is an example of a bony fish?

Answer

Carp

Question

Which of these is an example of jawless fishes?

Answer

Lamprey

Question

Cold-blooded animals are also known as ---------- animal

Answer

poikilothermic

Question

Which of these does the fish use in detecting movements and changes in water pressure?

Answer

lateral line

Question

Which of these group of animals made the first transition from aquatic to the terrestrial mode of life?

Answer

amphibians

Question

Which of these is not an amphibian?

Answer

Skates

Question

Which of the following have naked moist skin?

Answer

Amphibians

Question

Which of these is not true about the phylum echinodermata?

Answer

All have olfactory organs

Question

Which of these is not a class of the phylum echinodermata?

Answer

arachnida

Question

Sea Cucumber is an example of the class

Answer

holothuroidea

Question

Brittle Star is an example of the class

Answer

opliuroidea,

Question

Which of these is not a class of the phylum mollusca?

Answer

polychaeta

Question

The part of an earthworm that is stiff, brittle-like and helps it in moving around is the

---

Answer

Chetae

Question

A phylum which includes soft bodied animals with a shell is likely to be the phylum

---

Answer

mollusca

Question

The first person that attempted to classify living organisms is

---

Answer

Aristotle

Question

An example of liverwort is

Answer

Riccia

Question

Which of these organisms lack roots and have no vascular system?

Answer

Bryophytes

Question

The hind limbs of -------- have clawed digits modified for walking, perching , hopping, running or swimming

---

Answer

aves

Question

The head is small and rounded, whole body is oval and sreamlined. These description best describe

---

Answer

a bird

Question

Which of the following is not an example of a cartilaginous fish?

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Tilapia

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STT102

Question

Suppose that a histogram of a data set is approximately symmetric and "bell shaped". Approximately percent of the observations are within two standard deviation of the mean.

Answer

95

Question

Variables whose measurement is done in terms such as weight, height and length are classified as

Answer

continuous variables

Question

Focus groups, individual respondents and panels of respondents are classified as

Answer

primary data sources

Question

Type of bar chart that is used to present deficit in loss, excess in exports and deficit in imports is classified as

Answer

deviation bar charts

Question

Halfway point between lower class limits and upper class limits is classified as

---

Answer

class mid-point

Question

Graphs which represents data on maps are considered as

Answer

cartograms

Question

Data classification which is based on variables such as production, cost, height and weight is considered as

---

Answer

quantitative classification

Question

Exclusive method and inclusive method are ways of classifying data on basis of

---

Answer

class intervals

Question

Histograms, pie charts and frequency polygons are all types of

---

Answer

one dimension diagrams

Question

Term used to describe frequency curve is

Answer

symmetrical distribution

Question

Summary and presentation of data in tabular form with several non-overlapping classes is referred as

---

Answer

frequency distribution

Question

Data based on workers salary is given as: 2500, 2700, 2600, 2800, 2200, 2100, 2000, 2900, 3000, 2800, 2200, 2500, 2700, 2800, 2600; and number of classes desired is 10 then width of class interval is

---

Answer

100

Question

Classification method in which upper limit of interval is same as of lower limit class interval is called

---

Answer

exclusive method

Question

In stem and leaf display diagrams used in exploratory analysis, stems are considered as

---

Answer

leading digits

Question

Discrete variables and continuous variables are two types of

Answer

quantitative classification

Question

If arithmetic mean is multiplied to coefficient of variation then resulting value is classified as

Answer

standard deviation

Question

Sum of all squared deviations is divided by total number of observations to calculate

Answer

population variance

Question

For recorded observation, ratios measured by absolute variation are considered as:

Answer

relative measures

Question

If mean absolute deviation of set of observations is 8.5, then value of quartile deviation is

Answer

7.08

Question

If quartile range is 24 then quartile deviation is

Answer

12

Question

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MTH102

Question

Find the domain and range of $f(x) = 4 – x^{2}$, leaving your result in interval notation

---

Answer

$\left [4,\infty \right],\left [0,\infty$

Question

Differentiate with respect to x if $y = \frac{sinx}{x^{2}} \)

Answer

$ \frac{xcosx - 2sinx}{x^{3}} \)

Question

find the derivative of $y = 4x^{3}sinx$

Answer

$4x^{2}(xcox + 3sinx)$

Question

Which of the following conditions does NOT determine the continuity of f at point c?

Answer

$\lim_{x\rightarrow c}f(c) = f(x)$

Question

If p is a polynomial function and c is any real number, then $\lim_{x\rightarrow c}p(x)= $

Answer

p©

Question

Let $\lim_{x\rightarrow c}f(x)=9$ and $\lim_{x\rightarrow c}g(x)=1/2$ then f(x)/g(x) =

Answer

18

Question

if $\lim_{x\rightarrow c}f(x)=L$ and if $\lim_{x\rightarrow c}g(x)=K$, then $\lim_{x\rightarrow c}bf(x)=bL$ is called

Answer

scalar multiple

Question

Evaluate the limit of $x^{2} + 1$ as x tends to 1

Answer

2

Question

find the limit of f(x) as x tends to 1, if $\frac{x^{2}-1}{x-1}$

Answer

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Question

if $\lim_{x\rightarrow c}f(x)=L$, then $\lim_{x\rightarrow c}\sqrt[n]{f(x)}=$

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let \(f(x)= 1/x)\, then \(f^{-1}(x))\ is given as

Answer

x

Question

\(f^{-1}(x)= x - 8)\, then f(x)=?

Answer

X+8

Question

if \(f(x)=2x-4)\ and \(g(x)= x^{2} + 3)\, find f(g(x))

Answer

\(2x^{2} -2)\

Question

Determine if f is one to one for \(f(x)=x^{2} – 5x+1)\ when x = 0

Answer

yes

Question

A function is said to be one to one if...

Answer

To each value of the dependent variable in the range, there corresponds exactly one value of the independent variable

Question

Division by Zero is...

Answer

undefined

Question

Let $f(x)=x^{2}-4x +7$, find $\frac{f(x+\Delta x)-f(x)}{\Delta x}$

Answer

$2x+\Delta x-4$

Question

Find f(-1) for the equation $y=2xy^{2}-4x+1$

Answer

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Question

Which of the equation below define y as a function of x?

Answer

\(x^{2} + y=1)\

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PHY192

Question

Which of the following is true for a prism placed at minimum deviation?

Answer

the angle of incidence is equal to angle of emergence

Question

In the minimum deviation position of the prism, the refracted ray passes _____.

Answer

parallel to the base of the prism

Question

When a prism is placed in minimum deviation position, the prism ____.

Answer

lies symmetrically with respect to incident ray and emergent ray

Question

When an object is placed in front of a Convex lens between F′ and 2F′, the nature of the image formed is_____

Answer

real and inverted

Question

Which of the following is not a right precaution in an experiment to verify lens formula?

Answer

Images of the fisrt two pins should be in the straight line with the other two pins.

Question

What is the apparent motion between an object and its image, situated along the line of sight, relative to each other called?

Answer

Parallax

Question

What is the angle between the incident and the emergent rays in a prism is called?

Answer

angle of deviation

Question

The angle between the two refracting faces of a prism is called____.

Answer

angle of prism

Question

A prism has _____ plane surface(s) which is/are called refracting face(s)

Answer

two

Question

If the object is kept in front of a concave mirror between its focus F and centre of curvature C. What is the nature the of image formed? I- virtual II- real III- inverted IV- enlarged

---

Answer

II, III and IV only

Question

The mirror formula relates I- focal length of the mirror II- object distance III- image distance IV- principal focus

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Answer

I, II and III only

Question

Convex mirror is a curved mirror which is silvered_____

Answer

from inside

Question

Concave mirror is a curved mirror which is silvered_____

Answer

in its outer side

Question

Which of these precautions must be ensured in an experiment to verify Snell's law?

Answer

the pins are in line before removing the glass block

Question

Which of the following is required in an experiment to determine the focal length of a mirror?

Answer

All of the above

Question

All the following are required as apparatus in refraction using glass block experiment EXCEPT

Answer

G-Clamp

Question

Which of the following experiments can be suitably used to practically determine the angle of minmum deviation?

Answer

Refraction experiment by triangular glass prism

Question

Which of the following experiments can be suitably used to practically verify the laws of refraction?

Answer

Refraction through the glass block experiment

Question

Which of the following is not a right precaution in experiment to determine the refractive index of glass?

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What is the bending of a ray of light when it travels through a medium called?

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Answer

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PHY102

Question

Which of these combination would have an attraction?

Answer

electrons and protons

Question

Which of these is NOT a way to increase the force between two charged objects

---

Answer

make one of the objects bigger

Question

If the charge of one object is doubled, what would happen to the force?

Answer

it would be twice as strong

Question

Electric charges under action of electric forces is called

Answer

electrostatic

Question

Value of constant K in Coulomb's law has value of

Answer

9 × 109

Question

Formula that describes statement of Coulomb's law is

Answer

$F = kQ1Q2/r^2$

Question

Two positive charges Q1 = 16 C and Q2 = 4 C, separated by a diameter of 3 m will produce force of

Answer

42.7N

Question

Law stating that "force is directly proportional to product of charges and inversely proportional to square of separation between them" is called

Answer

coulombs law

Question

A particle with charge Q is placed outside a large neutral conducting sheet. At any point in the interior of the sheet the electric field produced by charges on the surface is directed

Answer

toward Q

Question

Charge is distributed uniformly along a long straight wire. The electric field 2 cm from the wire is 20 N/C. The electric field 4 cm from the wire is

---

Answer

10N/C

Question

A particle with charge 5.0μC is placed at the corner of a cube. The total electric flux in N.m2/C through all sides of the cube is

---

Answer

9.4 x 104

Question

A point charge is placed at the center of a spherical Gaussian surface. The electric flux ϕE is changed if: A

Answer

a second point charge is placed just outside the sphere

Question

Choose the INCORRECT statement

Answer

According to Gauss' law, if a closed surface encloses no charge, then the electric field must vanish everywhere on the surfac

Question

A neutral electroscope is touched with a positively carged rod. After the rod is removed the electroscope is charged positively because of

---

Answer

induction

Question

A positively charged sphere with a charge of +8Q is separated from a negatively charged sphere -2Q by a distance r. The spheres briefly touch each other and move to the original distance r. What is the new charge on each sphere after they move to the distance r?

Answer

3Q

Question

Two positive charges Q1 and Q2 are separated by a distance r. The charges repel each other with a force F. If the magnitude of each charge is doubled and the distance stays unchanged what is the new force between the charges?

Answer

4F

Question

Sphere A is charged positively and sphere B is neutral. The spheres are brought near each other. Which of the following statements is true?

Answer

There is an attractive electrostatic force between the spheres

Question

Two positive charges with magnitudes 4Q and Q are separated by a distance r. Which of the following statements is true?

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The forces on each charge are the same in magnitude and opposite in direction

Question

A neutral electroscope is touched with a negatively charged rod. What is the charge on the electroscope after the rod is removed?

Answer

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Question

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Answer

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Answer

positive

MTH103

Question

Let A, B, C be the points \((2, 3), (3, -2)\) and \((-1, 4)\). The length of AB yields_____

Answer

square root of 26

Question

What is the gradient of the straight line and the angle of inclination of the points, A(2, -3) and B(4, 5)?

Answer

gradient=1, angle = 45 degree

Question

The coordinate of the centre and the radius of the circle \(y^{2}+x^{2}-14x-8y+56=0\) will be_____

Answer

(7, 4) are the coordinates or centre of the circle, while 3 is the radius

Question

____ is defined as the ratio of the vertical distance the line rises or falls to the horizontal distance.

Answer

Gradient of a line

Question

If A is (3, 6) and B is (4, 8). Find the coordinate of the midpoint of AB.

Answer

\([3\frac{1}{2},7]\)

Question

The coordinates of the midpoint of a line segment is

Answer

the average of the coordinates of the endpoints

Question

In Cartesian Coordinates, the coordinates are given by the position

---

Answer

of a point in a plane

Question

The Locus of points at a distance of 3 from the point (0, 0) is given by the equation…

Answer

$x^{2}+y^{2}=9$

Question

If a = 2i + 4j + 3k and b = i + 5j − 2k. Find the vector product of a and b

---

Answer

$−23i + 7j + 6k$

Question

if a=3i+4j+5k and b=2i+j+7k. Find a.b

Answer

45

Question

If i.i = 1, then i.j = …

Answer

-1

Question

if $a=a_{1}i+a_{2}j+a_{3}k$ and $b=b_{1}i+b_{2}j+b_{3}k$ find a.b

---

Answer

$a_{1}b_{1}+a_{2}b_{2}+a_{3}b_{3}$

Question

When two vectors are at right angles to each other the dot product is ?

Answer

Zero

Question

If a=10, b=13 and the angle between a and b is 59.5 degree, what is the scalar product of a and b

---

Answer

65.98

Question

Find l,m,n of the vector $r = 2i + 4j - 3k$

Answer

$2\sqrt{29}, 4\sqrt{29}, -3\sqrt{29}$

Question

____ is the component contributions of the basis to the unit vector

---

Answer

Direction Cosines

Question

____ in analytic geometry of vector are the cosines of angles between the vector and the three coordinate axes

---

Answer

Direction Cosines

Question

___ is a vector as a way of determining the magnitude and direction in its coordinate of x and y axis

---

Answer

Component of a vector in terms of unit vector

Question

In triangle ABC, the points L, M, N are the midpoints of the sides AB, BC and CA respectively. Which these expressions is true?

Answer

$\overline{2AB}+\overline{3BC}+\overline{AC}=2\overline{LC}$

Question

ABCD is a square (quadrilateral) with T and U the mid points of SP and QR respectively. Which expressions is true?

Answer

PQ+RS =2TU

Question

Let A, B, C be the points $(2, 3), (3, -2)$ and $(-1, 4)$. The length of AB yields_____

Answer

square root of 26

Question

What is the gradient of the straight line and the angle of inclination of the points, A(2, -3) and B(4, 5)?

Answer

gradient=1, angle = 45 degree

Question

The coordinate of the centre and the radius of the circle $y^{2}+x^{2}-14x-8y+56=0$ will be_____

Answer

(7, 4) are the coordinates or centre of the circle, while 3 is the radius

Question

____ is defined as the ratio of the vertical distance the line rises or falls to the horizontal distance.

Answer

Gradient of a line

Question

If A is (3, 6) and B is (4, 8). Find the coordinate of the midpoint of AB.

Answer

\([3\frac{1}{2},7]\)

Question

The coordinates of the midpoint of a line segment is

Answer

the average of the coordinates of the endpoints

Question

In Cartesian Coordinates, the coordinates are given by the position

---

Answer

of a point in a plane

Question

The Locus of points at a distance of 3 from the point (0, 0) is given by the equation…

Answer

$x^{2}+y^{2}=9$

Question

If a = 2i + 4j + 3k and b = i + 5j − 2k. Find the vector product of a and b

---

Answer

$-23i + 7j + 6k$

Question

if a=3i+4j+5k and b=2i+j+7k. Find a.b

Answer

45

Question

If i.i = 1, then i.j = …

Answer

-1

Question

if $a=a_{1}i+a_{2}j+a_{3}k$ and $b=b_{1}i+b_{2}j+b_{3}k$ find a.b

---

Answer

$a_{1}b_{1}+a_{2}b_{2}+a_{3}b_{3}$

Question

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CIT102

Question

___ -oriented languages help programmers to solve a problem by indicating the procedures to be used by the computer

Answer

Procedure

Question

Typically, the Windows ___System that allows you to manage your files on the secondary memory,

Answer

Operating

Question

The process of ___ is accomplished by moving the Mouse so that the Pointer is positioned on a specific icon on the screen

---

Answer

Selecting

Question

Generally, the word ___ is simply the order of characters on the back row of keys on a manual typewriter.

Answer

QWERTY

Question

Machine language is the ___

Answer

Lowest language

Question

The smallest unit of measurement in the computer memory is the ___

Answer

Byte

Question

Within the context of software applications, the acronym represents __

Answer

Optical Character Recognition

Question

Basically, ___ keys consist of the character keys, Numeric Keys on the second row and some keys associated with text inputs

---

Answer

Editing

Question

__ refers to the pressing gently of either the Primary or the Secondary button

---

Answer

Clicking

Question

____ refers to the art of imagining a problem and conceiving its stepwise solution and then finally expressing the solution steps as instructions

---

Answer

Programming

Question

Generally, an interpreter translates the source program to ___ language as the program is being executed.

Answer

Machine

Question

A language is said to be _____ if it is relatively easy to implement .

Answer

Structured

Question

___ Systems are specifically developed to serve as human experts in a specific area of knowledge

---

Answer

Expert

Question

A Driver actually acts as a ____ of the meaning of the signals received by the OS

Answer

Translator

Question

Microsoft ____ is a good Database application

Answer

Publisher

Question

The facility to install other applications in a computer system is found on the ___ panel

---

Answer

Control

Question

The two major classes of languages classified as low level languages are the ___ language and machine language

---

Answer

Assembly

Question

A Word Processing ___ has the fundamental function of text manipulation

---

Answer

Software

Question

Presentation ___ are applications mainly used for preparing multimedia presentations

---

Answer

Tools

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Microsoft ____ is used to perform statistical operations

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Answer

Programming

PHY191

Question

Which of the following equation shows that the gragh has a negative slope

Answer

y = - mx + b

Question

If m and b are constants in the graph of y = mx + b . The value of the constant b represents

---

Answer

intercept on the graph

Question

If m and b are constants in the graph of y = mx + b . The value of the constant m represents

---

Answer

gradient of the graph

Question

If the value of x in the equation y = mx + b is zero. Find the value of y

---

Answer

y = b

Question

The equation y = mx + b represents the

Answer

linear graph that does not pass through the origin

Question

In the equation y = mx + b, m and b are

Answer

constants

Question

Which of these equations will give a linear graph that passes through the origin

---

Answer

y = mx

Question

The relationship between any two physical quatities can be determined through the use of

---

Answer

graph

Question

M which is the constant value in the graph of y = mx represents the

---

Answer

slope/gradient of the graph

Question

If y is plotted on the vertical axis and x on the horizontal axis in equation y = mx, the slope is

---

Answer

m which is the constant value

Question

In equation y = mx

Answer

independent varible

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Answer

linear graph passing through the origin

Question

Which of the following is correct about types of graph

Answer

all of the options

Question

One of the following is not an importance of graph

Answer

It cannot be used to determine the values other than those actually measured

Question

The two types of variables that can be measured are

Answer

dependent and independent variables

Question

Graphs can be used to

Answer

all of the options

Question

The derived quatities that can be measured in an experiment include the following except

---

Answer

mass

Question

The fundamental quantities that can be measured include the following except

---

Answer

volume

Question

The constants that can be measured through experiment include the following except

---

Answer

length of a wire

Question

Measurements enable man to

Answer

all the options

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PHY101

Question

An iron rod of length 50 m at a temperature of 60oC is heated to 70oC. Calculate the new length. (α = 0.000012 K-1)

Answer

50.006 m

Question

A platinum resistance thermometer has a resistance of 11.50 ohms at 0 oC and 17.35 ohms at 100 oC. Assuming that the resistance changes uniformly with temperature, what is the temperature when the resistance is 13.50 ohms?

Answer

34.19 oC

Question

Covert 87 oF to Celsius scale.

Answer

30.56 oC

Question

The lengths of the mercury column of a mercury thermometer are 1.26cm and 20.86cm respectively at the standard fixed points. What is the temperature of body, which produces 9.0cm of this mercury column?

Answer

45.92 oC

Question

When the bulb In any liquid in glass thermometer comes in contact with hot object, the liquid inside it

---

Answer

expands

Question

One of the following is not a thermometric property?

Answer

variation of temoerature

Question

The clinical thermometer is characterised by having a

Answer

constriction

Question

One of the following is not a disadvantage of using alcohol as a thermometric liquid

---

Answer

has a low freezing point of -115oC

Question

Upper fixed point can be defined as

Answer

the temperature of steam from pure water boiling at normal atmospheric pressure.

Question

Which of the following properties is not used to measure the temperature of a substatnce?

Answer

Change in colour with temperature

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The algebraic sum of the resolved parts of a number of forces in a given direction is equal to the resolved part of their resultant in the same direction. This is as per the principle of

Answer

resolution of forces

Question

Effect of a force on a body depends upon

Answer

all of the above

Question

Forces are called coplanar when all of them acting on body lie in

Answer

one plane

Question

A 2kg box is at the top of a frictionless ramp at an angle of 60o. The top of the ramp is 30m above the ground. The box is sitting still while at the top of the ramp, and is then released. What is the velocity of the box just before it hits the ground?

Answer

32.2 m/s

Question

An object is shot from the ground at 125m/s at an angle of 30o above the horizontal. How far away does the object land?

Answer

1350 m

Question

An object is shot from the ground at 75m/s at an angle of 45^{o} above the horizontal. How high does the object get before beginning its descent?

Answer

140 m

Question

A body moving with uniform acceleration has a velocity of 12.0 cm/s when its x coordinate is 3.00cm. If its x coordinate 2.00 s later is −5.00cm, what is the magnitude of its acceleration?

Answer

-16.0 cm s-2

Question

A football player could routinely kick a ball at a horizontal speed of 160 km/hr. How long did the ball take to reach a point 18.4m away?

Answer

0.414 s

Question

A body moves, from rest with a constant acceleration of 5 m per squared sec. The distance covered in 5 sec is most nearly

---

Answer

62.5 m

Question

3-vectors are only properly represented

Answer

in a 3-dimensional space

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3-vectors are only properly represented

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MTH101

Question

The set $\left \{ x|2\leq x\leq 5\right \}$ is a/an

Answer

closed interval

Question

Which of the following correctly defines the absolute value |x| of a number x?

Answer

|x|= x if x > 0

Question

The natural numbers are closed under the operation of

Answer

addition

Question

If a < b and b < c, then

Answer

a < c

Question

If a < b, then

Answer

b – a is a positive number

Question

Let the universal set be the set of positive integers and let A be the set of the positive even numbers. Find A compliment

---

Answer

$\left \{ 1,3,5,...\right \}$

Question

Let R be the set of real numbers and let Q be the set of rational numbers. Then $R – Q$ consist of the

---

Answer

irrational numbers

Question

Which of the following, concisely defines the union of A and B

Answer

$\left \{ x|x\in A \, or \, x\in B \right \}$

Question

B is a proper subset of A if

Answer

$B\subset A$ and $B \neq A$

Question

In the roster form, the set of natural is

Answer

\(\left \{ 1,2,3... \right \}\)

Question

Two sets A and B are equal iff every \(x\in A\) belongs to B and every \(y\in B\) belongs to A. This is called _____

Answer

Axiom of extension

Question

Which of the following is true of axiomatic development of plane Euclidean geometry

---

Answer

two different points are on one and only one line

Question

In an axiomatic development of plane Euclidean geometry, “points” and “lines” are

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Answer

undefined terms

Question

Let $E=t\ \{\ x,y,z\ \}$ and $F=t\ \{\ r,s,t\ \}$ then E and F are

---

Answer

disjoint

Question

The power set of a set M is denoted by

Answer

2^{M}

Question

One of the following is not a family of sets

Answer

$t\{\ 2,t\ \{\ 0,1\ \}\ \}$

Question

Which of the following is true of $A\subset B$

Answer

all the option are correct

Question

Let $E=t \{ x|x^{2}-3x=-2 \}$, $H=t \{ 1,2 \}$. Then

Answer

E=H

Question

Write the set $B=t \{ 2,4,6,8,... \}$ in set builder form

Answer

$B=t \{ x|x \text{ is even and positive } \}$

Question

List the elements of the set $B=t \{ x|x-2=5 \}$

Answer

$t\{ 7 \}$

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Answer

$t\{ 7 \}$

CIT143

Question

The process of reducing voluminous data into less voluminous data is called_____

Answer

Data summarization

Question

The process of investigating and identifying important attributes of a particular data set is called _____

Answer

Data analysis

Question

The process of planning or designing an information system is often referred to as _____

Answer

SDLC

Question

The binary 101101 is equivalent to which of the following base 10 numbers?

Answer

45

Question

Which of the following is a pre-defined way of displaying some or all the records and fields in a data table?

Answer

View

Question

Which of the following is a statement that instructs a DBMS to find and display data from a database all data that meet some criteria?

Answer

Query

Question

The final stage of the software development lifecycle is called _____

Answer

Monitoring the new system

Question

When someone is searching for all economics books in the library catalogue but without having any specific book in mind, which data retrieval type will be used?

Answer

Subject search

Question

The first stage of the software development lifecycle is_____

Answer

user requirements analysis

Question

If 1000 bytes make 1KB, How many bytes are in 1 GB?

Answer

\(10E09\)

Question

Most Web pages are prepared using Markup languages such as?

Answer

HTML

Question

DSL service is delivered simultaneously with regular?

Answer

Telephone

Question

The method of exchanging digital messages from an author to one or more recipients is refered to as?

Answer

Email

Question

Which of the following TCP/IP protocol is used for transfering electronic mail messages from one machine to another?

Answer

SMTP

Question

DSL provides a _____connection to ISP.

Answer

Point-to-Point

Question

The form of internet access that uses the facilities of the Public Switched Telephone Network (PSTN) to establish a dialed connection to an Internet Service provider

Answer

Dial-Up

Question

What allows dial up into the Internet at speeds ranging from 64 to 128 kbps?

Answer

ISDN

Question

Itranet that is partially accessible to authorised outsiders is refered to as?

Answer

Extranet

Question

The Acronym PDAs means

Answer

Personal digital assistants

Question

The Internet is also referred to as the_____ in simplest terms

Answer

net

CHM191

Question

In the titration of sodium hydroxide and tetraoxosulphate (vi) acid, the pH at the end point is usually _____.

Answer

less than 7

Question

X is not a primary standard, but can be used to prepare a standard solution. X could be _____.

Answer

\(H_{2}C_{2}O_{4}\)

Question

Which of these substances is not employed in preparing standard solution?

Answer

Hydrochloric acid

Question

What is the concentration of a solution containing 2.5g of potassium hydroxide in \(250cm^{3}\) of solution? (K=39, H=1, O=16)

Answer

0.179\(mol/dm^{3}\)

Question

Calculate the oxidation number of sulphur in $FeSO_{4}.7H_{2}O$?

Answer

6

Question

A stock bottle of an acid reads: 56% by mass and 1.25 specific gravity. If themolar mass of the acid is 70g, find the mole per cubic decimeter.

Answer

10.0mol/dm^{3}

Question

Which of the following is untrue of a standard solution?

Answer

Its concentration is unknown

Question

The most commonly used volumetric flask in volumetric analysis is the _____ volume capacity.

Answer

250ml

Question

Pipettes are of various capacities ranging from _____.

Answer

1ml - 50ml

Question

Which of the following is not true of a desicator?

Answer

it is not use for drying

Question

Which of the following is not true of\(KMnO_{4}\)?

Answer

it is a primary standard

Question

The oxidation number of sodium in sodium hydroxide is _____.

Answer

1

Question

Oxidizing agents are _____.

Answer

electron acceptors

Question

\(CO + H_{2}SO_{4}\). In the reaction above, which of the substance will be reduced?

Answer

S

Question

How many distinctive processes is involved in Iodometry?

Answer

two

Question

The reductant in iodometry is usually _____.

Answer

thiosulphates

Question

In a redox reaction, the element with less positive potential is normally _____.

Answer

reduced

Question

Which of the following is least reactive?

Answer

Cu

Question

Neutralization reactions is usually _____.

Answer

exothermic

Question

In KJ/Mol, the heat evolved when 1mole of sulphuric acid react with sodium hydroxide is approximately

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Answer

<57.5

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CHM101

Question

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Atomic Number

Question

The law of octaves was rejected for one the following reasons

Answer

mystical connection between music and chemistry

Question

When two hydrogen atoms combine to form a molecule the two nuclei can spin in the same or opposite direction this phenomena is known as

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Spin isomerism

Question

What type of hydride is this said to be LiH

Answer

Ionic hydride

Question

One of the following is a disadvantage of hydrogen

Answer

Hydrogen is a secondary source of energy

Question

Why is water a liquid and hydrogen sulphide a gas at room temeperature

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Answer

Electronegativity of the oxygen atom which polarizes the hydrogen atoms forming stronger hydrogen bonds causing higher boiling points

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Hydrogen bond formed between two atoms of the same or different molecule is called

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Question

As the principal quantum number increases, the outer electrons get farther away from the nucleus and the atomic radii _____

Answer

Increases

Question

The distance between the nucleus of an ion and the point up to which the nucleus has influence on the electron cloud is called

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Answer

Ionic radius

Question

One half of the distance between the nuclei of two adjacent metal atoms in the close packed crystal lattice is called

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Crystal or Metallic radius

Question

Half the distance between the nuclei of two atoms belonging to two adjacent molecules in a crystal lattice is called

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One half of the distance between the nuclei of two like atoms bonded together by a single covalent bond is called

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Why do alkali metals not occur as free elements in nature?

Answer

Because they are highly reactive elements

Question

What principles or rules are violated in the following electronic configuration \(1s^{2}2p_{x}^{2}\)?

Answer

Aufbau principle

Question

What principles or rules are violated in the following electronic configuration \(1s^{2}2s^{2}2p_{x}^{2}2p_{y}^{1}\)?

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What principles or rules are violated in the following electronic configuration \(1s^{2}2s^{3}\)?

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Question

What is the electronic configuration of elements with atomic number 29?

Answer

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Question

What is the electronic configuration of elements with atomic number 24?

Answer

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The electron affinity decreases down the group why?

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down the group the size of the atom increases and effective nuclear charge remains almost steady

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BIO191

Question

In the laboratory disposal of spent materials are done on ----------

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Answer

The incinerator

Question

To display general instructions in the laboratory, which of the following factors should be least considered?

Answer

Wordings

Question

Which of these statements is correct about biological drawings?

Answer

Drawing should not be too small or too big

Question

Which of the following equipment utilizes steam for sterilization?

Answer

Autoclave

Question

In the operation of an autoclave when the discharge outlet valve is closed, ---------- minutes are needed for sterilisation?

Answer

20

Question

Why is it that you do not drink or eat in the lab?

Answer

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Question

Why should books, notes and purses be kept in designated places in the lab?

Answer

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Question

When a display is ready, it is pasted in the

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Open lab walls and doors

Question

You write instructions for display in the laboratory using

Answer

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Question

Which of these items of the laboratory is out of place in the group?

Answer

Hot plate

Question

The essence of dissecting an animal or insect is

Answer

To display the internal organs/system

Question

To maximize the light gathering ability of the microscope lens, you add_____between the object and the coverglass

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Answer

Immersion oil

Question

Which of the following statements is incorrect about a microscope?

Answer

It is kept in a damp place

Question

You open up a rat with

Answer

Scissors

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Wearing of a lab coat is

Answer

Professional

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The operational range of temperature in an incubator is between ----------

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Answer

22-50°C

Question

The culture of microorganisms is best done in the laboratory using

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Answer

Laminar flow

Question

Dissecting trays contain _____.

Answer

Wax

Question

Tilapia zilli belongs to the Order

Answer

Perciformes

Question

_____constitute the largest number of living vertebrates

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The bony fish

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BIO101

Question

Fungi belong to which of these groups?

Answer

eukaryotes

Question

Fungi can be said to be mainly ------- organism

Answer

multicellular

Question

Which of these is true about cell division in fungi? Cell division is by

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Which of these organism is not an example of fungi?

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Which of the following is not a character of living things?

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There are ----- aspects of metabolism

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Question

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The main reason for assimilation is to

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Which of these statements is most correct?

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ESM106

Question

Dormant volcanic cone in Nigeria can be found in of the following areas

Answer

Jos plateau

Question

Granitic rocks belongs to one of the following formation

Answer

Basement complex

Question

The machine used to remove earth's overburden to exposed rock surface at mining site is called

Answer

excavator

Question

Outbreak and high incidence of cholera is associated with

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Question

one of the following do not provide renewable energy

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Question

All the following are non metallic minerals

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gypsum

Question

Garbage describes which class of waste

Answer

food waste

Question

industrial wastes are those waste materials of solid, liquid or sludge that arise from

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Commercial wastes are those waste that arise from

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Question

Nigeria steel rolling mill in Kogi state is located in which town

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Question

The towns of Ashaka, Nkalagu and Ewekoro have something in common which is

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Answer

Gold

Question

Man’s unwanted materials that is discarded is called

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Question

By- product of petroleum production is

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Natural resoures of crude oil is called

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Question

Resources that can be use and reuse again without been exhausted is

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Question

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solid waste

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Informal sector recycling activities of waste scavenging strives in Nigeria majorly as a result of

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In the context of environmental management, MSWM means

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Both A and B

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ESM112

Question

_____ is a primary consumer

Answer

Herbivore

Question

Any of a series of distinct feeding or nourishment levels in a food chain is called _____

Answer

Tropic level

Question

Who among these scholars adopted the low of species tolerance_____

Answer

Miller

Question

The following are classified as elements except_____

Answer

competitors

Question

The following are the features of ecosystem except _____

Answer

competence

Question

One of these can also be referred to as a biosphere _____

Answer

Ecosphere

Question

Which of the following can be described as the thin part of which plays a major role in sustaining life on earth_____

Answer

Ecosphere

Question

_____ is a place where individual organisms complete their life cycle

---

Answer

Habitat

Question

All non-living organisms are referred as _____

Answer

Abiotic

Question

_____ is the science that attempts to answer questions about how nature works

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Answer

Ecology

Question

The two most important factors that affects climate of an area are ____And ____

Answer

Season temperature and average precipitation

Question

That type of specie interaction where one type of organism benefits while the other is neither helped nor harmed is referred to as ____

Answer

Engineering

Question

Exploitative interactions of species in an ecosystem may include____

Answer

Predation

Question

The loss of one of these species could affect other dependent species in an ecosystem

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Answer

Keystone species

Question

One of these species are immigrants introduced by humans.

Answer

Alien species

Question

All of these distorted the water cycle except ____

Answer

Desertification

Question

____can mix with other organic compounds to form basic building block.

Answer

Carbon

Question

____is responsible primarily for the movement of nutrients back and forth between reservoirs in the atmosphere and hydrosphere and living organisms.

Answer

Gaseous cycle

Question

The cyclic process responsible for the constant transfer of essential nutrients in a cyclical pathway is referred to as ____

Answer

Biogeochemical

Question

____ can covnert sunlight into chemcial energy.

Answer

Primary producers

Question

_____ is a primary consumer

Answer

Herbivore

Question

Any of a series of distinct feeding or nourishment levels in a food chain is called _____

Answer

Tropic level

Question

Who among these scholars adopted the low of species tolerance_____

Answer

Miller

Question

The following are classified as elements except_____

Answer

competitors

Question

The following are the features of ecosystem except _____

Answer

competence

Question

One of these can also be referred to as a biosphere _____

Answer

Ecosphere

Question

Which of the following can be described as the thin part of which plays a major role in sustaining life on earth_____

Answer

Ecosphere

Question

_____ is a place where individual organisms complete their life cycle

---

Answer

Habitat

Question

All non-living organisms are referred as _____

Answer

Abiotic

Question

_____ is the science that attempts to answer questions about how nature works

---

Answer

Ecology

Question

The two most important factors that affects climate of an area are ____And ____

Answer

Season temperature and average precipitation

Question

That type of specie interaction where one type of organism benefits while the other is neither helped nor harmed is referred to as ____

Answer

Engineering

Question

Exploitative interactions of species in an ecosystem may include____

Answer

Predation

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ESM104

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_____is everything external to the organism

Answer

effective environment

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It has been observed that the carbon dioxide content of the world’s atmosphere increased by 9% between _____.

Answer

1900 and 1935

Question

_____ gases are found at the lower layer of the atmosphere

Answer

dense

Question

Metazora are the true animals including _____.

Answer

man

Question

environmental system contains _____processes

Answer

complex

Question

Troposphhere is the _____ layer of the atmosphere

Answer

first

Question

_____can be described as a gaseous envelope held to the earth by gravitational forces.

Answer

atmosphere

Question

_____ concentration is lower around equator

Answer

Ozone

Question

Gases that varies with latitude and season include ozone, water vapour and _____ .

Answer

carbon diocide

Question

Trposphere extends to a height of over the tropical region

Answer

16 – 18km

Question

Over _____ perished in Ogunpa flood in Ibadan in the year 1980

Answer

2000 persons

Question

_____are caused by precipitation acting either directly by rainfall, or indirectly by snow or ice melt, and thososе collapse and earthslides.

Answer

River flood

Question

Ozone performs two important functions in the .

Answer

atmosphere

Question

Aerosols have a cooling effect on the temperature of the _____ .

Answer

lower atmosphere

Question

Increasing the _____ from 14% to 35%had the effect of shifting the boundary between the two major air masses.

Answer

Albedo

Question

Which of the floowing is not a type of drought ?

Answer

economic drought.

Question

The_____ is also referred to as the organic world

Answer

biosphere

Question

_____is the only element which occurs naturally in three states

Answer

Water

Question

The _____ has an average density of 2.7gcm3

Answer

SIAL

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_____is everything external to the organism

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The percentage of companies involved in recyclng is

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Upgraded version of dumping is called

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land filling

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Deposition in a land is called

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Burning in a pit makes use of

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Question

Composite can be done in

Answer

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Radioactive materials generate which waste

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Question

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Koko waste in Nigeria was in the year

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A disposable material is called

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Municipal waste is also known as what waste

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An example of agricultural waste is

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Gully erosion can be caused by

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Guinea savannah is the largest in

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Mineral wastes consists of

Answer

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Problems constituted all over the world by solid wastes are

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Question

Most households throw their wastes in

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One of these is a type of dump

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PHY103

Question

The difference between the directions of the emergent ray and the incident ray in a prism is known as ___

Answer

the angle of deviation.

Question

The refracting angle of a prism is 45º and the refractive index of the glass for yellow light is 1.65. What is the smallest possible angle of incidence of a ray of this yellow light which is transmitted without total reflection?

Answer

12.76º

Question

A certain prism is found to produce a deviation of 45º, while it produces a deviation of 60º for two values of the angle of incidence namely 40º and 82º respectively. Determine the angle of incidence at minimum deviation.

Answer

53.5º

Question

Two thin (small angled) prisms are combined to produce dispersion without deviation. One prism has angle 5º and refractive index 1.56. If the other prism has refractive index 1.7, what is its angle?

Answer

4º

Question

The face AC of a glass prism of angle 30º is silvered. A ray of light incident at an angle of 60º on face AB retraces its path on getting reflected from the silvered face AC. If the face AC is not silvered, the deviation that can be produced by the prism will be

Answer

30º

Question

The dispersion of light when it passes through a prism shows that ___

Answer

different colors have different indices of refraction.

Question

A transparent rectangular block 5 cm thick is placed on a black dot. The dot, when viewed from above, is seen 3 cm from the top of the block. Calculate the refractive index of the material of the block.

Answer

1.67

Question

When a ray of light travels from an optically denser medium to an optically rarer medium ___

Answer

it moves away from the normal

Question

The critical angle for total internal reflection at an air-water interface is approximately 48 degrees. In which of the following situations will total internal reflection occur?

Answer

light incident in water at 55 degrees

Question

In swimming pools they appear shallower than they are actual because of ____

Answer

refraction

Question

Incident ray, refracted ray and normal ray all lie on same plane, as per

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Answer

first law of refraction

Question

Ratio (speed of light in air or vacuum/speed of light in a medium) is equal to

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Convex mirror produces image which is

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Question

An object is placed 50 cm in front of a concave mirror and a real image is produced 20 cm from the mirror. What is the magnification produced?

Answer

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The mirror used as a side mirror in a motor bike is

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A ray of light passing through the _____ retraces its path.

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An image formed by a convex mirror is always _____.

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ESM102

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