

Multiple Choice Questions SECTION-B[CHEMISTRY]

A good thermal insulator should have.....

- ☐ high thermal conductivity
- ☒ low thermal conductivity
- ☐ high electrical conductivity
- ☐ moderate electrical conductivity

Clear selection

Thinners are added to paint to

- ☒ improve drying quality
- ☐ reduce the cost
- ☐ decrease the Viscosity
- ☐ provide water proofness
- ☐ Other:

The process of purification of impure metal by using Electrolysis is called as

- ☐ Electroplating
- ☐ Electrodeposition
- ☒ Electrorefining
- ☐ Metal Cladding

Clear selection

Which one of the following is electrolyte?

- ☐ benzene
- ☐ chloroform
- ☒ sodium chloride solution
- ☐ sugar solution

Clear selection

In galvanic cell, electrical energy is generated at the expense of ____

- ☐ free energy
- ☒ Chemical energy
- ☐ heat energy
- ☐ Kinetic energy

Clear selection

Electrochemical equivalent may be defined as the ____ of the substance deposited by the passage of 1 coulomb of electricity.

- ☐ Volume
- ☒ Weight
- ☐ density
- ☐ parts

Clear selection

On the basis of structure, polymers are classified as

- ☐ copolymer and homopolymer
- ☒ linear and cross linked polymer
- ☐ Thermosoft and Thermoset
- ☐ Addition polymer and Condensation polymer

Clear selection

The process use to deposit one metal over another metal using electrolysis is called as _____

- ☐ Electrodeposition
- ☒ Electroplating
- ☐ Electrometallurgy
- ☐ Electrefining

Clear selection

An example of natural adhesive used in stamps, envelopes etc. is.....

- ☒ Starch
- ☐ Araldite
- ☐ Epoxy Resin
- ☐ Wax

Clear selection

In Daniel cell anode material is made up of

- ☒ Zinc
- ☐ Copper
- ☐ Iron
- ☐ Nickel

Clear selection

Graphite is an example of which type of lubricant?

- ☒ Solid
- ☐ SemiSolid
- ☐ Liquid
- ☐ Gaseous

Clear selection

The process in which an ionic compound when dissolved in any solvent splits into its ion is known as ____

- ☐ electrolysis
- ☒ Ionization
- ☐ hydration
- ☐ Conduction

Clear selection



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Formation of clouds and trade winds
works on the principle of

- ☐ conduction
- ☒ convection
- ☐ radiation
- ☐ transmission

Clear selection

A window pane is 100 cm X 30 cm. Its thickness is 3 mm. If the difference between inside & outside temperature is 50K, calculate the amount of heat conducted in 1 hour. K for glass = 1 W/m²°K.

- ☐ 10×10⁶ J
- ☐ 15×10⁶ J
- ☒ 18×10⁶ J
- ☐ 20×10⁶ J

Clear selection

When a small amount of trivalent impurity (such as Ga or B or Al) is added to a pure semiconductor (Si or Ge), it is called as _____ semiconductor.

- ☐ n-type
- ☒ p-type
- ☐ pn-type
- ☐ np-type

Clear selection

A germanium diode is used for

- ☐ rectification
- ☐ voltage stabilization
- ☐ modulation
- ☒ amplification

Clear selection



Formation of clouds and trade winds

The band which consists different closely spaced energy levels of all electrons in a particular orbit are called _____

- ☐ Energy band
- ☐ Valence band
- ☒ Conduction band
- ☐ None of the above

Clear selection

The amount of heat flowing through a rod of unit area, in one second for unit temperature gradient at steady state is called _____

- ☒ heat coefficient
- ☐ coefficient of electrical conductivity
- ☐ coefficient of thermal conductivity
- ☐ temperature coefficient

Clear selection



When a small amount of trivalent impurity



At constant pressure, the volume of gas is directly proportional to absolute temperature of the gas. Identify the correct gas law -

- ☐ Boyle's law
- ☒ Charle's law
- ☐ Gay-Lussac's law
- ☐ Avogadro's law

Clear selection

A forward biased pn junction diode conducts, if the applied voltage is _____ potential barrier.

- ☐ smaller than
- ☐ equal to
- ☒ greater than
- ☐ independent of

Clear selection



The band which consists different closely



A gas at 75 cm of mercury and the temperature of gas changes from 27°C to 127°C at constant volume, find the pressure exerted by the gas.

- ☐ 184.6cm
- ☒ 100cm
- ☐ 269.2cm
- ☐ 358,78cm

Clear selection

$PV = RT$ is called as

- ☐ gas equation
- ☐ general gas equation
- ☒ ideal gas equation
- ☐ state of gas

Clear selection



At constant pressure, the volume of gas is directly proportional to absolute

Which is the correct correlation between °C scale and °F scale?

- ☐ °C = (°F - 32) × 5/9
- ☐ °F = (9/5 × °C) + 32
- ☒ Both (A) and (B)
- ☐ None of the above

Clear selection

Trivalent atoms have how many valence electrons?

- ☐ 1
- ☒ 3
- ☐ 4
- ☐ 5

Clear selection

A gas at 75 cm of mercury and the temperature of gas changes from 27°C to 127°C at constant volume, find the pressure exerted by the gas.



The conduction band

- ☐ is always below the forbidden energy level
- ☐ is the region of free electrons
- ☐ concentrates holes for the flow of current
- ☒ is a range of energies corresponding to the energies of the free electrons

Clear selection

At constant temperature, the pressure of gas is inversely proportional to volume of the gas. Identify the correct gas law -

- ☒ Boyle's law
- ☐ Charle's law
- ☐ Gay-Lussac's law
- ☐ Avogadro's law

Clear selection



Which is the correct correlation between



Multiple Choice Questions SECTION-A[PHYSICS]

Why specific heat at constant pressure is greater than specific heat at constant volume?

- ☒ Heat absorbed at constant pressure is used to increase temperature as well as to expand the gas.
- ☐ Heat absorbed at constant volume is used to increase temperature as well as to expand the gas.
- ☐ Heat absorbed at constant pressure is used to decrease temperature as well as to expand the gas.
- ☐ Heat absorbed at constant volume is used to decrease temperature as well as to expand the gas.

Clear selection

The conduction band



is always below the forbidden energy level

