

General Chemistry Interview Questions And Answers Guide.



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General Chemistry Job Interview Preparation Guide.

Question # 1

What is the process for separating the components of gunpowder?

Answer:-

First introduce water and then filter the particulates out. The liquid would be mostly potassium nitrate since there will be a finite amount of solubility of the other 2 compounds. Next introduce carbon disulfide and filter the carbon away from the soluble sulfur. They would be cleaned up sufficiently enough i would think.

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Question # 2

Which metal is found abundantly in the earth's crust?

Answer:-

Aluminum

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Question # 3

How will you judge that the given organic compound is pure or not?

Answer:-

There are so many analytical methods to know the organic compound is pure or not such as find out the purity by TLC, HPLC, GC, and also gravimetric methods are also there such as limit test and ash of the compound as so on.....

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Question # 4

Which is the best conductor of electricity?

Answer:-

Silver is the best conductor of electricity.

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Question # 5

Why is the pH scale range 14? Why is it not less or not greater than 14? Solution of HCl or hydrogen containing liquid has a pH. But if the solution is KMnO_4 here not hydrogen power does it pH?

Answer:-

This is the scale to measure the concentration (activity) of H^+ ions in solution which is $-\log[\text{H}^+]$ convenient for our usage

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Question # 6

Why are all the concentrations of chemical species measured using water as solvent (for example 1N NaOH means 40 g of NaOH in one litre of water) even though there are so many solvents available?

Answer:-

Water is a neutral solvent, doesn't react with NaOH or other chemical species.

Its density is nearly about 1.0.

Some reagents may be prepared in so many solvents.



for example. 0.1N perchloric acid is prepared in glacial acetic acid in non aqueous titration.
Methanolic HCl(HCl in Methanol)or Hcl in Propanol etc

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Question # 7

However ozone is heavier than oxygen still ozone is up there in sky why?

Answer:-

It's not that it's "staying up there", it's that it never has a chance to fall. Ozone is FORMED up there, and it breaks apart again before it has a chance to fall. Ozone is formed when UV radiation hits oxygen (O₂), splitting it apart. Oxygen atoms hate to be alone, so they recombine with an O₂ molecule to make O₃, ozone. Before the ozone has a chance to fall, IT gets hit with MORE uv radiation, turning it back into oxygen. Ozone just keeps getting made and destroyed before it has a chance to fall.

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Question # 8

When a glass rod is heated gradually and suddenly dipped in cold water, it cracks. What is the reason?? When a cool glass rod is suddenly heated, it cracks. Why?

Answer:-

When a glass rod is heated the molecules gains energy and they will be in random motion. when it is suddenly dipped in cold water, the glass molecules contact with water gives its energy to the lower energy water molecule while the molecules inside the glass with higher energy will release the energy randomly as a result it creates cracks for more surface area, so that more energy can flow in lower time.

Same thing happens when it cooled rod is heated.

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Question # 9

What is the difference between base & nucleophile?

Answer:-

A lewis base is a proton acceptor. these can be good nucleophiles for a reaction if they are not too big and bulky. if they are too big, they can't attack the electrophile and you will probably get an E type rxn instead of an S_N type rxn. A nucleophile is any electron rich molecule. This can be a lewis base or it can be another species such as a carbanion

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Question # 10

Acid value definition is number milligrams of KOH required to neutralise the acid present in one gram oil & fats but why not use NaOH for neutralisation?

Answer:-

NaOH can also be used but standard results are based on calculation done using KOH as alkali

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Question # 11

If this element X combines with another element Y whose electronic configuration is 2, 8, 7 what will be the formula of the compound thus formed? State how did you arrive at this formula?

Answer:-

The element Y is Cl having electronic configuration 2,8,7 so to complete outer orbit and become stable it requires 1 electron So if it accepts 1 electron from Hydrogen (1) or Na having electronic configuration (2,8,1) then the formula becomes XY.

This will take place only if X is element having 1 electron in its outer orbit

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Question # 12

What is the molarity of a NaOH solution if 32.47ml. is required to titrate 0.6013g of potassium hydrogen phthalate?

Answer:-

0.09M



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Question # 13

What is the valence of nitrogen?

Answer:-

Nitrogen has 5 valence electrons in an atom

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Question # 14

why in atomic mass electron is not include while proton and neutron include? although electron is a part of atom?

Answer:-

Electrons are moving around the orbit of the atom. According to Heisenberg principle position and momentum (P) of a moving particle cannot be determined simultaneously at one instance. since mass is to be determined from the formula $m = P/v$, where P is the momentum and v is the velocity of the electron. even if we can able determine the velocity we can't determine the momentum at that time. hence the mass can't be determined. hence it is neglected from the atomic mass calculation.

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Question # 15

What is kenchin? Is it real? As much info on it as possible?

Answer:-

hardest metal.

1 square metre of kenchin could with stand the heat of the sun!

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Question # 16

What is the formula of diesel, petrol & CNG too?

Answer:-

The alkanes from pentane (C_5H_{12}) to octane (C_8H_{18}) are refined into petrol, the ones from nonane (C_9H_{20}) to hexadecane ($C_{16}H_{34}$) into diesel fuel and kerosene (primary component of many types of jet fuel), and the ones from hexadecane upwards into fuel oil and lubricating oil.

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Question # 17

In Einsteins mass energy relation $E=mc^2$ for what is c used or why is light required for reactions. Because the reactions are with help of neutrons?

Answer:-

In This equation c is sed as a speed of light

In a chemical reactions most of the reaction are photolytic reaction, which means bond breaks or formed with influence of light. hence c is used in reaction

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Question # 18

What is the formula of petrol?

Answer:-

C_nH_{2n+2}

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Question # 19

What is phase transfer catalyst?

Answer:-

Phase transfer catalyst are substances which has visa to go both aqueous and non aqueous phase.

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Question # 20

What is mineral water?

Answer:-



Purified water mixed with appropriate amount of salts needed by the body is called mineral water

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Question # 21

Why titration in which hcl and h₂so₄ is use?

Answer:-

Its depend on which type of titration u perform those are given very good result than other thats why we use these

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Question # 22

Why be is not soluble in liquid ammonia?

Answer:-

no

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Question # 23

What is german silver?

Answer:-

It is the mixture of 60% Ni, 20% Cu and 20% Zn. It is also called as Nickel Silver.

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Question # 24

pH is having unit?

Answer:-

NO BUT 1 TO 6 IS ACID 7 IS NUTURAL AFTER ALKALINE

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Question # 25

Is urea addition affecting the COD (chemical oxygen demand) & BOD (Biological oxygen demand)level? why?

Answer:-

it used for the generating the microorganism

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Question # 26

What is acidity of a base?

Answer:-

Number of OH⁻ ions released by a base is the acidity of a base

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Question # 27

Who is the king of chemistry?

Answer:-

H₂SO₄

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Question # 28

What are the advantages of soapy detergents over soapless?

Answer:-

when we put on dirty cloths in detergent then due to chemical bonding

made up michell. one part of michell called head and another part is called tail. head contain Na and tail contain oH⁻. and when we dropped dirty cloth on water then it has to be clean

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