

Physical Chemistry Interview Questions And Answers Guide.



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Physical Chemistry Job Interview Preparation Guide.

Question # 1

What is the difference between EMF and Voltage?

Answer:-

emf is that force which tend to push electrons from one poient to another . but voltage is the amount of current passed through a given resistance.

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Question # 2

Why we are carrying standardization of karl fisher auto titrator with water and disodium tartarate?

Answer:-

The standardisation of karlfischer reagent is very important before starting the experiment because the reagent is always in contact with air and absorbs the moisture and results in the dilution of the reagent. So it will be better to standardise the reagent either with water or di sodium tartarate

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Question # 3

Why silica absorb in mix bed resins in D M plant?

Answer:-

Because in mix bed cation & anion resin are present the removal of all ions so he absorbs at time of reamning of silica (sio₂)

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Question # 4

As per X-ray Fluorescence theory, when material particle is irradiated with X-ray the electron of innermost orbital of that element atom is exited and emits outside of the atom as photoelectrons, living behind a hole in innermost orbital . This hole is filled by outer orbital electrons. The question is that finely what happens to that photo electron which is emitted outside of the atom?

Answer:-

The photo electron which is emmitted outside the atom will be released in the form of heat.

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Question # 5

What is little silver?

Answer:-

platinum, its comes from spanish word Platina which means Little silver

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Question # 6

At a constant temp. volume is inversly proportional to pressure. This is Boyles law. But, when u give pressure to a football, how the volume also increases?

Answer:-

Boyle's law states that" at a constant temperature the volume of a GIVEN MASS of gas is inversely proportional to the applied pressure.



This indicates not only the temp, but the mass must be constant.
But, when u apply pressure to a football, u r suplying air; in fact u r not keeping the mass constant.
Hence Boyle's law can't be applied to this case.
Of course, when u supply only pressure from out side but not air, definitely the volume will decrease.

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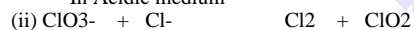
Question # 7

Balance the following redox equations by ion electron method.

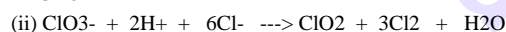
In basic medium



In Acidic medium



Answer:-



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Question # 8

Today science says that clouds r formed due to sea (more than 90% sea water in cloud). but when rain starts, the rainy water is sweet while sea (salty)water is salty, how sea water is converted into sweet water?

Answer:-

sea water evaporates leaving salts..... so the rain water is salt free

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Question # 9

What are the different by which a new molecule can be characterized?

Answer:-

1. ELEMENTAL ANALYSIS
2. FUNCTIONAL GROUP ANALYSIS
3. COLLIGATIVE PROPERTIES
4. SPECTROSCOPY

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