

Chemistry Sample Questions

1. is the process of conversion of the solid phase to gas phase without passing an intermediate liquid phase

- 1.Evaporation
- 2.Oxidation
- 3.Sublimation
- 4.Condensation
- 5.None of these

Answer & Explanation

Answer – **3.Sublimation**

Explanation :

Sublimation is the process of conversion of the solid phase to gas phase without passing an intermediate liquid phase. This process is used to separate a sublimate particles from non sublimate.

2. Elements contain only type of atoms

- 1.Single
- 2.Many
- 3.Same
- 4.Different
- 5.None of these

Answer & Explanation

Answer – **1.Single**

Explanation :

Elements contain only single type of atoms.

Presently there are 118 atoms. Out of which 94 are natural

Ex of element: Oxygen, Sulphur etc.

3. Elements have the following order of abundance in earth crust

- 1.Calcium<Silicon<Aluminium<Oxygen<Iron

2. Oxygen < Silicon < Aluminium < Iron < Calcium
3. Silicon > Aluminium > Iron > Oxygen > Calcium
4. Oxygen > Silicon > Aluminium > Iron > Calcium
5. None of these

Answer & Explanation

Answer – **4. Oxygen > Silicon > Aluminium > Iron > Calcium**

Explanation :

Elements have the following order of abundance in earth crust
Oxygen > Silicon > Aluminium > Iron > Calcium

4. Elements have the following order of abundance in human body

1. Nitrogen > Calcium < Carbon < Oxygen
2. Oxygen > Carbon > Hydrogen > Nitrogen
3. Hydrogen > Oxygen > Magnesium > Carbon
4. Oxygen < Carbon < Hydrogen < Nitrogen
5. None of these

Answer & Explanation

Answer – **2. Oxygen > Carbon > Hydrogen > Nitrogen**

Explanation :

Elements have the following order of abundance in human body
Oxygen > Carbon > Hydrogen > Nitrogen

5. contain more than one kind of atoms

1. Substance
2. Elements
3. Compounds
4. Atom
5. None of these

Answer & Explanation

Answer – **3. Compounds**

Explanation :

Compounds contain more than one kind of atoms. These can't be separated into constituent atoms by simple methods.

Ex: Silica, Salt

6. Avogadro's number is

1. 3.025×10^{24}
2. 4.023×10^{26}
3. 5.020×10^{25}
4. 6.023×10^{23}
5. None of these

Answer & Explanation

Answer – **4. 6.023×10^{23}**

Explanation :

1 mol atom = 6.023×10^{23} atoms – Avogadro's number

It states that the number of molecules present in 12g of C-12 is called one mol

7. Which does not exist in free state ?

1. Atom
2. Molecule
3. Compound
4. Mixture
5. None of these

Answer & Explanation

Answer – **1. Atom**

Explanation :

Atom does not exist in free state. Atom is the smallest particle of matter that takes part in chemical reaction

8. A solution contain 2 components. Which is in less quantity is called as

1. Substance
2. Solvant
3. Solution

- 4.Solute
- 5.None of these

Answer & Explanation

Answer – **4.Solute**

Explanation :

A solution contain 2 components.Which is in less quantity is called as Solute

Ex: The salt is the solute and the water the solvent

In such a mixture, a solute is a substance dissolved in another substance, known as a solvent.

9. **A solution contain 2 components.Which is in more quantity is called as**
- 1.Substance
 - 2.Solvent
 - 3.Solution
 - 4.Solute
 - 5.None of these

Answer & Explanation

Answer – **2.Solvent**

Explanation :

A solution contain 2 components.Which is in more quantity is called as Solvent

The salt is the solute and the water the solvent.

In such a mixture, a solute is a substance dissolved in another substance, known as a solvent.

10. **is the only atom in which neutrons are not present**
- 1.Carbon
 - 2.Oxygen
 - 3.Hydrogen

- 4. Helium
- 5. None of these

Answer & Explanation

Answer – **3. Hydrogen**

Explanation :

A normal hydrogen (H) atom does not have any neutrons in its tiny nucleus. It has only one electron and one proton

