

H.W.
05-10-21Elements, compounds, symbols and formulaeRevision Questions:

- i. How is sodium chloride different from its constituent elements, sodium and chlorine in its properties ? justify ?
- ans Sodium is a metal that is stored in kerosene oil. If reacts ^{very fast} with water and air. Chlorine is a greenish yellow gas that is very poisonous. But when ^{these two elements} combine ^{they form} colourless and ^{gasoline suspension} common salt that is not hating and is used in our food to add taste and is a form of our nutrition.
2. Name the elements which form water. State the three characteristics to justify that it is a compound.
- ans The elements which form water are Hydrogen (H_2) and oxygen (O) that becomes H_2O (water). The three characteristics to justify that it is a compound :-
- Water has entirely different ~~prop~~ properties (i.e. is a liquid extinguishes fire) from the elements it is made up of hydrogen a gas catches fire, Oxygen a gas supports fire.
 - Energy is needed to form water on combining O with H_2 .
 - We cannot change the constituent of water by physical means.

3 What do you mean by electrolysis?

ans: Electrolysis is a ^{chemical} process by which ~~water is~~ separated from O and the elements of Hydrogen are separated from water molecules.

4 Mention 3 gaseous elements and write their molecular formulae?

1) ans. The three ~~gaseous~~ elements are gaseous.

The gaseous elements	Their molecular formulae
Hydrogen	H_2
Oxygen	O_2
Chlorine	Cl_2

5 Metals are ductile and malleable. What do you understand by this statement?

ans: Metals are ductile i.e. they can be drawn and stretched into thin wires i.e.
• i.e. They are malleable i.e. they can be beaten into thin sheets.