

# CBSE Class 10 Science Sample Paper Solution

## Section A

1. What are oxidation and reduction reactions? [1]

**Answer 1:** Oxidation is a type of chemical reaction where there is a gain of oxygen or loss of hydrogen while reduction involved loss of oxygen or gain of hydrogen.

2. What happens when an acid reacts with a metal? [1]

**Answer 2:** When an acid reacts with a metal, hydrogen gas is usually released and a salt compound is formed.

## Section B

3. Write the equation for the chemical reaction: Hydrogen + Chlorine → Hydrogen chloride. State whether it is a balanced equation or not? [2]

**Answer 3:**



The 2 in front of HCl indicates that the equation is balanced.

OR

What are covalent Bonds? Name an element which forms such type of bond with itself and other elements?

**Answer:** Bonds that are formed by the sharing of electrons between two atoms are known as covalent bonds. Carbon can form covalent bonds with itself and other elements like hydrogen, nitrogen, oxygen and others.

4. State a reason why rainwater is a good conductor of electricity while distilled water is a bad conductor of electricity? [2]

**Answer 4:** Due to the presence of dissolved salts and ions rainwater is a good conductor of electricity whereas distilled water does not contain ions.

OR

Name one characteristic of metals that allow it to be easily flattened into thin sheets. Give an example of such metals.

**Answer:** Malleability is one physical property of metals that allow it to be shaped into thin sheets. Gold and Silver are some examples of metals having high malleability.

# Sample Science Paper

**Huangqi Zhang**



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