

# 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.

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## **Table of Contents Cbse Class 10 Fa1 Sample Papers Science**

1. Understanding the eBook Cbse Class 10 Fa1 Sample Papers Science
  - The Rise of Digital Reading Cbse Class 10 Fa1 Sample Papers Science
  - Advantages of eBooks Over Traditional Books
2. Identifying Cbse Class 10 Fa1 Sample Papers Science
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cbse Class 10 Fa1 Sample Papers Science
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cbse Class 10 Fa1 Sample Papers Science

- Personalized Recommendations
  - Cbse Class 10 Fa1 Sample Papers Science User Reviews and Ratings
  - Cbse Class 10 Fa1 Sample Papers Science and Bestseller Lists
5. Accessing Cbse Class 10 Fa1 Sample Papers Science Free and Paid eBooks
    - Cbse Class 10 Fa1 Sample Papers Science Public Domain eBooks
    - Cbse Class 10 Fa1 Sample Papers Science eBook Subscription Services
    - Cbse Class 10 Fa1 Sample Papers Science Budget-Friendly Options
  6. Navigating Cbse Class 10 Fa1 Sample Papers Science eBook Formats
    - ePub, PDF, MOBI, and More
    - Cbse Class 10 Fa1 Sample Papers Science Compatibility with Devices
    - Cbse Class 10 Fa1 Sample Papers Science Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Cbse Class 10 Fa1 Sample Papers Science
    - Highlighting and Note-Taking Cbse Class 10 Fa1 Sample Papers Science
    - Interactive Elements Cbse Class 10 Fa1 Sample Papers Science
  8. Staying Engaged with Cbse Class 10 Fa1 Sample Papers Science
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Cbse Class 10 Fa1 Sample Papers Science
  9. Balancing eBooks and Physical Books Cbse Class 10 Fa1 Sample Papers Science
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Cbse Class 10 Fa1 Sample Papers Science
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Cbse Class 10 Fa1 Sample Papers Science
    - Setting Reading Goals Cbse Class 10 Fa1 Sample Papers Science
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Cbse Class 10 Fa1 Sample Papers Science

- Fact-Checking eBook Content of Cbse Class 10 Fa1 Sample Papers Science
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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