

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

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Table of Contents Sample Science Paper

1. Understanding the eBook Sample Science Paper
 - The Rise of Digital Reading Sample Science Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Science Paper
 - 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 Sample Science Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Science Paper
 - Personalized Recommendations
 - Sample Science Paper User Reviews and Ratings
 - Sample Science Paper and Bestseller Lists
5. Accessing Sample Science Paper Free and Paid eBooks
 - Sample Science Paper Public Domain eBooks
 - Sample Science Paper eBook Subscription Services
 - Sample Science Paper Budget-Friendly Options

6. Navigating Sample Science Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Science Paper Compatibility with Devices
 - Sample Science Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Science Paper
 - Highlighting and Note-Taking Sample Science Paper
 - Interactive Elements Sample Science Paper
8. Staying Engaged with Sample Science Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Science Paper
9. Balancing eBooks and Physical Books Sample Science Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Science Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sample Science Paper
 - Setting Reading Goals Sample Science Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Science Paper
 - Fact-Checking eBook Content of Sample Science Paper
 - 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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