

D.V.S PUBLIC SCHOOL

(Recognized & Affiliated to CBSE)

ASSIGNMENT-1

Class-10 Subject – Science

Chapter 1: Chemical Reactions and equations

Name: _____ Class/Section: _____

Roll No.: _____

Date: _____

Q1. Which of the following is a chemical change?

- a) Melting of ice
- b) Boiling of water
- c) Burning of magnesium ribbon
- d) Dissolving sugar in water

Q2. Assertion (A): Rusting of iron is a chemical reaction.

Reason (R): Iron reacts with oxygen and moisture to form iron oxide.

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation
- c) A is true but R is false
- d) A is false but R is true

Q3. When iron nails are placed in copper sulphate solution, the solution changes color.

- What type of reaction is this?
- Write the chemical equation.

Q4. Take zinc granules and add dilute hydrochloric acid.

- What do you observe?
- Write the balanced chemical equation.

Q5. Define a chemical reaction. List any two characteristics.

Q6. What is a balanced chemical equation? Why is it important?

Q7. Explain different types of chemical reactions with examples:

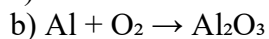
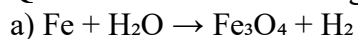
- Combination reaction
- Decomposition reaction
- Displacement reaction

Q8. A student performs an experiment by heating lead nitrate in a test tube.

- What do you observe?
- Identify the type of reaction.
- Write the chemical equation.

Q9. Define exothermic and endothermic reactions. Give one example of each.

Q10. Balance the following:



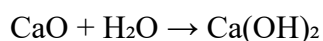
Q11. Define oxidation with an example.

Q12. Define reduction with an example.

Case-Based Question

Q13. A student observes the following reaction:

When calcium oxide reacts with water, a large amount of heat is released and calcium hydroxide is formed.



Answer the following:

- Identify the type of reaction
- Is it endothermic or exothermic?
- Name the product formed
- Write one use of this reaction
- What precaution should be taken during this reaction?

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ASSIGNMENT - 1

CLASS - 10th

SUBJECT - SOCIAL SCIENCE

NAME OF STUDENT: _____

ROLL NO: _____

Question 1: Briefly trace the process of German unification.

Question 2: Why did nationalist tensions emerge in the Balkans?

Question 3: Write a note on:

1. Giuseppe Mazzini
2. Frankfurt Parliament

Question 4: How were liberty and equality for women to be defined?

Question 5: Describe the unification of Italy.