

**Chapter 2**

**CHEMICAL CHANGES AND REACTIONS**

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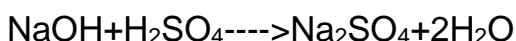
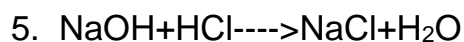
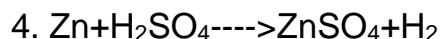
***Short answer questions***

***Answers:***

1. A change in which no new substances are formed and which can be reversed by reversing the conditions is called a physical change.

2. A change in which new substances are formed and which cannot be reversed by reversing the conditions is called a chemical change.

3. No



6. Exothermic reaction

A reaction in which heat is evolved is called an exothermic reaction.

Endothermic reaction

A reaction in which heat is absorbed is called an endothermic reaction.

7. If heat is evolved in the formation of a compound from its elements the compound is said to be exothermic.

Ex. HCl, carbon dioxide

If heat is absorbed in the formation of a compound from its elements the compound is said to be endothermic.

Ex. HI, NO

8. a. Exothermic reaction

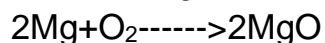
b. Endothermic reaction

c. Endothermic reaction

d. Exothermic reaction

e. Exothermic reaction

9. There will be an increase of mass because magnesium combines with oxygen to form magnesium oxide.



### **Objective questions**

**Choose the correct answer from the options given below each of the following questions.**

- 1.ans. hydrogen iodide
- 2.ans. carbon dioxide
- 3.ans. synthesis
- 4.ans. double decomposition

### **Match the columns**

B

- c. Decomposition reaction
- a. Synthetic reaction
- b. Double decomposition reaction
- e. Neutralization reaction
- d. Displacement reaction

### **Fill in the blanks**

#### **Answers:**

- 1.A physical change is a temporary change but a chemical change is a permanent change.
2. When an acid reacts with a base to give a salt and water the reaction is called a neutralization reaction.
3. In photosynthesis carbon dioxide is consumed and oxygen is given out.
- 4..... Neutralization reaction.
- 5..... displacement reaction.

True or false.

1.a chemical change is always accompanied by the evolution for absorption of heat.

True

2. Photosynthesis is a physical change.

False.

3. Exothermic reactions are very rare.

False.

4..... Is a reversible reaction.

True.

5.the mass of a substance does not change on burning.

False.

6. Respiration takes up carbon dioxide from air.

False