

## Chapter 6: Chemical Reactions

### Worksheet 1

#### 1. Write T for true and F for false statement.

- (i) The reaction in which heat is absorbed is called an endothermic reaction.
- (ii) A combination reaction takes place by combining two or more reactants together to form a single product.
- (iii) The colour of silver is black.
- (iv) The colour of barium sulphate is white.
- (v) Addition of oxygen or removal of hydrogen from a substance is called reduction.

#### 2. Fill in the blanks.

- (i) When copper carbonate crystals are heated, \_\_\_\_\_ and \_\_\_\_\_ are formed.
- (ii) The reaction between copper sulphate solution and iron nail is an example of \_\_\_\_\_ reaction.
- (iii) When aqueous solutions of silver nitrate and sodium chloride are mixed, a white precipitate of \_\_\_\_\_ is formed.
- (iv) Oxides which show the properties of acidic oxides as well as basic oxides are called \_\_\_\_\_ oxides.
- (v) Metallic oxides are called \_\_\_\_\_ oxides.

#### 3. Define the following.

- (i) Decomposition reaction
- (ii) Exothermic reaction
- (iii) Reduction
- (iv) Oxidation
- (v) Displacement reaction

#### 4. Answer the following questions.

- (i) What is double decomposition reaction? Give an example.
- (ii) Write a balanced chemical equation in support of redox reaction.
- (iii) What are neutral oxides?
- (iv) Name the process which involves loss of electrons.
- (v) Which are binary compounds of oxygen?

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### Worksheet 2

#### 1. Name the following.

- (i) The reaction in which '+ Heat' is written on LHS side.
- (ii) The downward arrow ( $\downarrow$ ) is used with this in the reaction.
- (iii) This acid is produced on dissolving water in sulphur dioxide.
- (iv) This oxide reacts with water to produce a base which turns red litmus blue.
- (v) This oxide is used as a catalyst in preparing oxygen.

#### 2. Write chemical equations for the following reactions.

- (i) Heating of zinc carbonate crystals
- (ii) Reaction between zinc granules and hydrochloric acid
- (iii) Reaction between barium chloride and sodium sulphate
- (iv) Reaction between carbon dioxide gas and limewater
- (v) Reaction between ammonia gas and hydrochloric acid

#### 3. Match the columns.

##### Column A

- (i) Oxidation
- (ii) Reduction
- (iii)  $\text{CO}_2$
- (iv) Neutralisation reaction
- (v)  $\text{Na}_2\text{O}$

##### Column B

- (a) Addition of hydrogen
- (b) Acidic oxide
- (c) Removal of hydrogen
- (d) Basic oxide
- (e) Salt and water

#### 4. Answer the following questions.

- (i) What are the characteristics of a chemical reaction?
- (ii) What is meant by precipitation reaction?
- (iii) What is an endothermic reaction? Give an example.
- (iv) What is a redox reaction? Give one example of it.
- (v) Define double displacement reaction.