1)**What is the general form of a chemical equation?** a) Reactants + Products → Energy   
b) Reactants → Products + Energy   
c) Reactants + Products → Reactants   
d)Reactants + Products → Products

**Answer: b) Reactants → Products + Energy**   
2)**Which of the following is a balanced chemical equation?**

a) H₂ + O₂ → H₂O   
b) 2H₂ + O₂ → 2H₂O   
c) H₂ + O₂ → H₂O₂   
d) 2H₂ + O₂ → H₂O + O₂

**Answer: b) 2H₂ + O₂ → 2H₂O**   
3)**In a chemical reaction, which of the following is always conserved?**

a)Mass   
b) Volume   
c) Temperature   
d)Color

**Answer: d) color**   
4)**What type of reaction is represented by the equation: Fe + O₂ → Fe₂O₃?**

a) Decomposition Reaction   
b) Combination Reaction   
c) Displacement Reaction   
d) Double Displacement Reaction

**Answer: b) Combination Reaction**   
5)**Which of the following statements is true about a decomposition reaction?**  a) One reactant produces two or more products.

b) Two or more reactants combine to form a single product.

c) An element displaces another element in a compound.

d) Two compounds react to form two new compounds.

**Answer: a) One reactant produces two or more products.**