

## **Chemical Reaction**

1. What are the parts of the chemical equation?
2. Name the chemical reaction in which two substances exchange ions.
3. What is the difference between a reactant and a product?
4. How does pressure affect the rate of gaseous reactions?
5. Define acid-base reaction with an example.
6. What is a chemical reaction? What are the conditions required for a chemical reaction? Explain any three with an example.
7. Explain addition recitation and single displacement reaction with an example.
8. What is a catalyst? How does a catalyst affect the rate of recitation?
9. Describe an activity to demonstrate that the rate of chemical reaction increases with the increase of temperature.

10. Two chemical substances, when mixed at room temperature, react, slowly suggesting two ways of increasing the rate of this reaction.
11. Why is silver bromide stored in dark bottles in the laboratories?
12. Why is the rate of chemical reaction important in real life?
13. Identify each type of reaction;
- i.  $2\text{NH}_4\text{NO}_3 \rightarrow 2\text{N}_2 + 4\text{H}_2\text{O} + \text{J}_2$
  - ii.  $2\text{Hg} + \text{O}_2 \rightarrow 2\text{HgO}$
  - iii.  $\text{KOH} + \text{HCl} \rightarrow \text{KCl} + \text{H}_2\text{O}$
14. Change the following word equation into a chemical equation and then balance them.
- i. Lead oxide + Carbon  $\rightarrow$  Carbon monoxide + Lead
  - ii. Potassium chlorate  $\rightarrow$  Potassium chloride + Oxygen
  - iii. Aluminium + Chlorine  $\rightarrow$  Aluminium chloride