

## Chemistry Practical Class 10 Types of Reaction - Combination Reaction - Action of Water on Quicklime Viva Questions with Answers

**Q1. What is Combination Reaction?**

**Answer:** Combination reaction is a type of chemical reaction in which two or more reactants combine to form a single product.

**Q2. What is the product formed when water reacts with quicklime?**

**Answer:** Calcium hydroxide is formed when water reacts with quicklime.

**Q3. What is the common name of calcium hydroxide?**

**Answer:** Calcium hydroxide is commonly called slaked lime.

**Q4. What is the molecular formula of calcium hydroxide?**

**Answer:** The molecular formula of calcium hydroxide is  $\text{Ca(OH)}_2$ .

**Q5. How do you calculate the molecular mass of  $\text{Ca(OH)}_2$ ?**

**Answer:** The molecular mass of  $\text{Ca(OH)}_2$  is calculated as follows:

Atomic mass of Ca: 40

Atomic mass of O: 16

Atomic mass of H: 1

Molecular mass of  $\text{Ca(OH)}_2 = 40 + 16 + 16 + 1 + 1 = 74 \text{ g/mol}$ .

**Q6. Write the chemical equation for the reaction between water and quicklime?**

**Answer:**  $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$ .

**Q7. What is the molecular mass of water?**

**Answer:** Molecular mass of water is 18 g/mol.

**Q8. What is the molecular mass of calcium oxide?**

**Answer:** Molecular mass of calcium oxide is 56 g/mol.

**Q9. In what physical state is the product formed?**

**Answer:**  $\text{Ca(OH)}_2$  is obtained in solid state. It is seen in powder form.

**Q10. What is the physical observation of the reaction between water and calcium oxide?**

**Answer:** The beaker becomes hot.

**Q11. Is heat released during the above reaction?**

**Answer:** Yes, heat is released.

**Q12. Is the above mentioned reaction endothermic or exothermic?**

**Answer:** The reaction is exothermic.

**Q13. Is heat released during the reaction of  $\text{H}_2\text{O}$  and  $\text{CaO}$ ?**

**Answer:** Yes, heat is released.

**Q14. What is the common name of calcium oxide?**

**Answer:** Calcium oxide is commonly called quick lime.

**Q15. What are the uses of calcium hydroxide?**

**Answer:** Calcium hydroxide is used in the paper industry, sewage treatment and is an important starting material for production of ammonia.

