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# Chemical Reactions & Equations · Chapter Test 1

15 questions · 33 marks · A-D

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**Instructions:** Solve on this sheet or separate paper. **Label each answer with its question number (Q1, Q2 ...).** When done, upload one PDF of all your answers on LazyTopper to get it graded with full solutions.

## Section A

1 mark each

**Q1.** What is the coefficient of $O_2$ in the balanced equation: __Fe + __$O_2$ → __$Fe_2O_3$?

(a) 1 (b) 2 (c) 3 (d) 4

**Q2.** Which of the following is an example of a displacement reaction ?

(a) The combustion of natural gas

(b) The reaction of a reactive metal with dilute acid

(c) The electrolysis of water

(d) The reaction of quick lime with water

Asked in CBSE Board 2026 · Set 1

**Q3.** The reaction between calcium oxide and water is

(a) a combination reaction, because two reactants form a single product

(b) a decomposition reaction, because a single reactant breaks into two products

(c) a displacement reaction, because calcium displaces hydrogen from water

(d) a double displacement reaction, because ions are exchanged between reactants

**Q4.** To balance the following chemical equation, the values of the coefficients x, y and z must be respectively : x $Zn(NO_3)_2$ → y ZnO + z $NO_2$ + $O_2$

(a) 4, 2, 2 (b) 4, 4, 2 (c) 2, 2, 4 (d) 2, 4, 2

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