

CHAPTER-3 | ATOMS AND MOLECULES

QUIZ
PART-03

1. An ion is a:

- A. Neutral atom
- B. Charged atom or group of atoms
- C. Only molecule
- D. Only element (B)

Explanation: An ion carries a positive or negative charge.

2. A positive ion is called:

- A. Anion
- B. Cation
- C. Radical
- D. Molecule (B)

Explanation: A positively charged ion is called a cation.

3. A negative ion is called:

- A. Cation
- B. Atom
- C. Anion
- D. Element (C)

Explanation: A negatively charged ion is called an anion.

4. Which is a polyatomic ion?

- A. Na^+
- B. Cl^-
- C. NH_4^+
- D. O^{2-} (C)

Explanation: Ammonium is a charged group of atoms.

5. Sulphide ion (S^{2-}) is a:

- A. Monoatomic cation
- B. Monoatomic anion
- C. Polyatomic cation
- D. Polyatomic anion (B)

Explanation: The symbol of the metal is written first.

6. In a metal + non-metal compound, written first is:

- A. Non-metal
- B. Metal
- C. Oxygen
- D. Hydrogen (B)

Explanation: The symbol of the metal is written first.

7. Formula of calcium hydroxide is:

- A. CaOH_2
- B. $\text{Ca}(\text{OH})_2$
- C. Ca_2OH
- D. CaH_2O (B)

Explanation: Polyatomic ion OH is written in brackets.

8. Oxide of Z with valency 3 is:

- A. ZO_3
- B. Z_2O_3
- C. Z_3O_2
- D. Z_3O (B)

Explanation: Cross valency of Z^3 and O^{2-} gives Z_2O_3 .

9. Molecular mass of H_2O is:

- A. 16 u
- B. 17 u
- C. 18 u
- D. 20 u (C)

Explanation: $2 \times 1 + 16 = 18$ u.

10. Formula unit mass of NaCl is:

- A. 23 u
- B. 35.5 u
- C. 56 u
- D. 58.5 u (D)

Explanation: $23 + 35.5 = 58.5$ u.