

CHAPTER-3 | ATOMS AND MOLECULES

QUIZ
PART-02

1. Atom is the smallest particle of an:

- A. Compound
- B. Element
- C. Mixture
- D. Solution (B)

Explanation: An atom is the smallest particle of an element.

2. Atomic radius is measured in:

- A. kg
- B. litre
- C. nanometre
- D. metre (C)

Explanation: Atomic size is measured in nanometres.

3. 1 nanometre =

- A. 10^{-3} m
- B. 10^{-6} m
- C. 10^{-9} m
- D. 10^{-12} m (C)

Explanation: $1 \text{ nm} = 10^{-9} \text{ m}$.

4. Correct symbol pair is:

- A. Sulphur – Su
- B. Potassium – P
- C. Phosphorus – P
- D. Nitrogen – Ni (C)

Explanation: Phosphorus is represented by P.

5. Symbol of iron is:

- A. Ir
- B. In
- C. Fe
- D. Fi (C)

Explanation: Iron comes from the Latin name ferrum.

6. Mass of one atom of carbon-12 is:

- A. 1u
- B. 6u
- C. 12u
- D. $1/12u$ (C)

Explanation: One carbon-12 atom has a mass of 12u.

7. 1u is equal to:

- A. 1.66×10^{-27} kg
- B. 1.66×10^{-26} kg
- C. 1.66×10^{-28} kg
- D. 1.66×10^{-25} kg (A)

Explanation: This is the value of 1 atomic mass unit.

8. Molecule is made of:

- A. One ion only
- B. Two or more atoms
- C. Only metals
- D. Only compounds (B)

Explanation: A molecule contains two or more chemically bonded atoms.

9. Example of molecule of an element:

- A. H_2O
- B. CH_4
- C. NH_3
- D. O_2 (D)

Explanation: O_2 contains atoms of the same element only.

10. Atomicity means:

- A. Mass of atom
- B. Size of atom
- C. Number of atoms in a molecule
- D. Number of electrons (C)

Explanation: Atomicity is the number of atoms in one molecule.

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