

CHAPTER-3 | ATOMS AND MOLECULES

QUIZ
PART-01

1. Matter has:

- A. Colour only
- B. Mass and volume
- C. Shape only
- D. Smell only (B)

Explanation: Matter has mass and occupies space.

2. Maharishi Kanad called the smallest particle:

- A. Atom
- B. Molecule
- C. Parmanu
- D. Electron (C)

Explanation: He named the smallest particle parmanu.

3. In a chemical reaction, reactants form:

- A. Elements
- B. Products
- C. Mixtures
- D. Atoms only (B)

Explanation: Reactants change into products.

4. Law of conservation of mass says mass is:

- A. Created
- B. Destroyed
- C. Conserved
- D. Doubled (C)

Explanation: Total mass remains the same.

5. This law was established by:

- A. Dalton and Rutherford
- B. Lavoisier and Proust
- C. Bohr and Thomson
- D. Newton and Einstein (B)

Explanation: These laws were established after their experiments.

6. In water, mass ratio of hydrogen : oxygen is:

- A. 1:2
- B. 1:4
- C. 1:8
- D. 2:1 (C)

Explanation: In water, H:O by mass is always 1:8.

7. Law of constant proportions applies to:

- A. Elements only
- B. Mixtures
- C. Compounds
- D. Solutions only (C)

Explanation: Elements in a compound are present in fixed mass ratio.

8. Dalton was a:

- A. Greek philosopher
- B. Indian scientist
- C. British chemist
- D. French physicist (C)

Explanation: John Dalton was a British chemist.

9. Atoms of the same element are:

- A. Different
- B. Identical
- C. Unstable
- D. Visible (B)

Explanation: They are identical in mass and properties.

10. Atoms of different elements combine in:

- A. Random ratio
- B. Decimal ratio
- C. Fixed whole-number ratio
- D. Equal ratio (C)

Explanation: Compounds form in simple whole-number ratios.

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