

**CHAPTER-8 | Nature of Matter: Elements, Compounds,  
and Mixtures****QUIZ  
PART-03**

1. Pure substance contains:

- A. Many particles
- B. Same type of particles
- C. Different mixtures
- D. Visible parts (B)

*Explanation:* Only one type of particle.

2. Pure substance cannot be separated by:

- A. Filtration
- B. Physical methods
- C. Evaporation
- D. Decantation (B)

*Explanation:* Physical separation not possible.

3. Adulteration means:

- A. Purifying
- B. Adding cheap substances
- C. Heating
- D. Mixing gases (B)

*Explanation:* Illegal mixing of impurities.

4. Passing electricity through water produces:

- A. Carbon
- B. Hydrogen and oxygen
- C. Nitrogen
- D. Sulfur (B)

*Explanation:* Water decomposes chemically.

5. Gas at negative terminal was:

- A. Oxygen
- B. Hydrogen
- C. Nitrogen
- D. Carbon (B)

*Explanation:* Hydrogen collected double volume.

6. Gas with brighter flame is:

- A. Hydrogen
- B. Oxygen
- C. Nitrogen
- D. Carbon dioxide (B)

*Explanation:* Oxygen supports combustion.

7. Water is:

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

*Explanation:* Water is pure compound.

8. Pure substances include:

- A. Air
- B. Saltwater
- C. Sugar
- D. Milk (C)

*Explanation:* Sugar is compound.

9. Pure substance has:

- A. Variable composition
- B. Fixed composition
- C. Visible layers
- D. Dust (B)

*Explanation:* Fixed ratio of particles.

10. Decomposition of water is:

- A. Physical change
- B. Chemical change
- C. No change
- D. Mixing (B)

*Explanation:* New substances formed.