

CHAPTER-8 | Nature of Matter: Elements, Compounds,  
and MixturesQUIZ  
PART-06

1. Mixture components are:

- A. Chemically bonded
- B. Physically combined
- C. Fixed ratio
- D. New substance (B)

*Explanation:* Mixtures are physical combinations.

2. Compound components are:

- A. Physically mixed
- B. Chemically bonded
- C. Separable easily
- D. Visible (B)

*Explanation:* Chemical bond holds them together.

3. Mixture has:

- A. Fixed composition
- B. Variable composition
- C. Chemical bond
- D. Formula (B)

*Explanation:* Ratio can vary.

4. Compound has:

- A. Variable ratio
- B. Fixed ratio
- C. No formula
- D. Separate layers (B)

*Explanation:* Elements combine in fixed proportion.

5. Example of mixture:

- A. Water
- B. Salt
- C. Air
- D. Carbon dioxide (C)

*Explanation:* Air is mixture of gases.

6. Example of compound:

- A. Steel
- B. Sugar
- C. Brass
- D. Milk (B)

*Explanation:* Sugar is chemical compound.

7. In mixture, properties:

- A. Change completely
- B. Remain same
- C. Destroyed
- D. Invisible (B)

*Explanation:* Components retain properties.

8. Compound can be represented by:

- A. Colour
- B. Formula
- C. Size
- D. Density (B)

*Explanation:* Chemical formula shows composition.

9. Heating mixture of iron and sulfur without reaction gives:

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

*Explanation:* Without reaction, remains mixture.

10. After reaction iron and sulfur cannot be separated by:

- A. Magnet
- B. Chemical method
- C. Heating
- D. Physical method (D)

*Explanation:* Compound cannot separate physically.