

1. Which property allows metals like copper and aluminium to be beaten into thin sheets?

- A. Ductility  
B. Sonority  
C. Malleability  
D. Conductivity (C)

**Explanation :** Metals such as copper and aluminium flatten when hammered; this ability is called malleability.

2. Which material from the list is brittle?

- A. Iron  
B. Aluminium  
C. Copper  
D. Sulfur (D)

**Explanation :** Sulfur breaks into pieces on hammering and is therefore brittle.

3. Which metal is found in a liquid state at room temperature?

- A. Gold  
B. Mercury  
C. Aluminium  
D. Sodium (B)

**Explanation :** Mercury is the only metal present in liquid form at room temperature.

4. What property of metals helps in making electrical wires?

- A. Malleability  
B. Sonority  
C. Ductility  
D. Rusting (C)

**Explanation :** Metals like copper and aluminium can be drawn into thin wires due to ductility.

5. Which material is a good conductor of heat?

- A. Wood  
B. Coal  
C. Iron  
D. Sulfur (C)

**Explanation :** Metals such as iron conduct heat well, which is why cooking vessels are made of metal.

6. In rusting of iron, which two components must be present?

- A. Air and oil  
B. Water and air  
C. Heat and water  
D. Iron and wood (B)

**Explanation :** Iron rusts only when both air and water are present.

7. What is the product formed when magnesium ribbon burns in air?

- A. Magnesium chloride  
B. Magnesium oxide  
C. Magnesium sulfate  
D. Magnesium carbonate (B)

**Explanation :** Magnesium reacts with oxygen to form magnesium oxide, a white powder.

8. Sulfur dioxide dissolved in water forms:

- A. Magnesium oxide  
B. Sulfurous acid  
C. Carbonic acid  
D. Nitric acid (B)

**Explanation :** Burning sulfur produces sulfur dioxide, which forms sulfurous acid when dissolved in water.

9. Which of the following is a non-metal essential for life processes?

- A. Iron  
B. Chlorine  
C. Oxygen  
D. Aluminium (C)

**Explanation :** Oxygen is a non-metal required for respiration.

10. Which method helps in preventing rusting of iron?

- A. Heating  
B. Hammering  
C. Galvanisation  
D. Melting (C)

**Explanation :** Applying a protective zinc coating (galvanisation) prevents rusting.