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## NCERT Class X Science Class: Chapter – 3. Metals and Nonmetals – Part-1

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### ***Multiple Choice Questions***

#### **Question 1:**

Which of the following property is generally not shown by metals?

1. Electrical conduction
2. Sonorous in nature
3. Dullness
4. Ductility

**Answer: C**

## Physical Properties of Metals

1. Ductile
2. Malleable
3. Good conductors of electricity
4. Good conductors of heat
5. Shiny
6. High melting points & boiling points
7. High density
8. Strength

### Question 2:

The ability of metals to be drawn into thin wire is known as

1. Ductility
2. Malleability
3. Sonorousity
4. Conductivity

**Answer: A**

# Ductility

- The ability of an object to be drawn into thin wires without losing strength.
  - Metals are ductile.



## Question 3:


Aluminium is used for making cooking utensils. Which of the following properties of aluminium are responsible for the same?

1. Good thermal conductivity
2. Good electrical conductivity
3. Ductility
4. High melting point
5. (i) and (ii)
6. (i) and (iii)

7. (ii) and (iii)

8. (i) and (iv)

**Answer: D**



## Properties of Aluminum

- **Lightness:** Its specific weight is  $2.7 \text{ g/cm}^3$ , which is one-third that of steel.
- **Non – toxic**
- **Good Strength:**
- **Corrosion-resistance** due aluminum oxide formation
- **Good Conductivity** of heat and electricity
- **Highly Ductile**
- **Highly Reflective**
- **Impermeable and odorless**
- **Recyclability**

**Question 4:**

Which one of the following metals do not react with cold but react with hot water?

1.  $\text{Na}$

2.  $\text{Ca}$

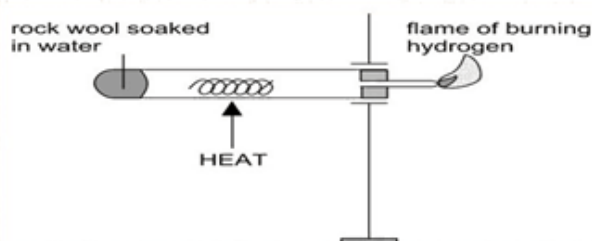
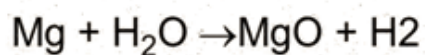
3.  $\text{Mg}$

4.  $\text{Fe}$

**Answer: D**

## Reaction of metals with water

- Mg, Zn and Fe do not react with cold water but they can react with hot water or steam



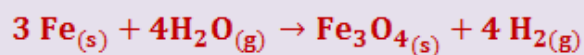
### Question 5:

Which of the following oxides of iron would be obtained on prolonged reaction of iron with steam?

1.  $\text{FeO}$
2.  $\text{Fe}_2\text{O}_3$
3.  $\text{Fe}_3\text{O}_4$
4.  $\text{Fe}_2\text{O}_3$  and  $\text{Fe}_3\text{O}_4$

**Answer: C**

**Iron do not react with cold or hot water, but it reacts with steam to form metal oxide and hydrogen.**



**Question 6:**

What happens when calcium is treated with water?

1. It does not react with water
2. It reacts violently with water
3. It reacts less violently with water
4. Bubbles of hydrogen gas formed stick to the surface of calcium
5. (i) and (iv)
6. (ii) and (iii)
7. (i) and (ii)
8. (iii) and (iv)

**Answer: D**

