

# NTSE

NCERT Solutions for Class 10 Science  
CHEMISTRY – Metals and Non-Metals



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## NCERT ANNEXURE

Given below are subjective type questions and answers for your reference:

**1. Explain the meaning of malleable & ductile.**

**Ans.** Metals can be hammered into thin sheets. This property is called malleability and the metals are called malleable.

Metals can be drawn into thin wires. This property is called ductility and the metals are called ductile.

**2. Samples of four metals A, B, C & D were taken and added to following solutions one by one. The results obtained have been tabulated as follows:**

| Metal | Iron (II) Sulphate | Copper (II) Sulphate | Zinc Sulphate | Silver Nitrate |
|-------|--------------------|----------------------|---------------|----------------|
| A     | No reaction        | Displacement         | -             | -              |
| B     | Displacement       | -                    | No reaction   | -              |
| C     | No reaction        | No reaction          | No reaction   | Displacement   |
| D     | No reaction        | No reaction          | No reaction   | No reaction    |

Use the table above to answer the following questions about metals A, B, C & D:

(a) Which is the most reactive metal out of A, B, C & D?

(b) What would you observe when B is added to a solution of copper (II) Sulphate?

(c) Arrange the metals A, B, C & D in order of decreasing reactivity.

**Ans.** (a) B is most reactive metal.

(b) Since metal B is more reactive than iron as it can displace iron, it will also displace copper from copper sulphate & the blue colour of copper sulphate will change.

(c)  $B > A > C > D$

**3. Ionic compounds have high melting & boiling points.**

**Ans.** Ionic compounds have high melting & boiling points because a lot of heat is required to break the strong electrostatic force of attraction between the ions.

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4. Which one of the following properties is not generally exhibited by ionic compounds?

- (A) Solubility in water
- (B) Electrical conductivity in solid state
- (C) High melting and boiling points
- (D) Electrical conductivity in molten state

Ans. (B)

5. Metals are refined by using different methods. Which of the following metals are refined by electrolytic refining?

- (i) Au
- (ii) Cu
- (iii) Na
- (iv) K

- (A) (i) and (ii)                      (B) (i) and (iii)                      (C) (ii) and (iii)                      (D) (iii) and (iv)

Ans. (A)

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