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Exercise

1. Which of the following can be beaten into thin sheets?

- (a) Zinc
- (b) Phosphorus
- (c) Sulphur
- (d) Oxygen

Answer: (a) Zinc

2. Which of the following statements is correct?

- (a) All metals are ductile.
- (b) All non-metals are ductile.
- (c) Generally, metals are ductile.
- (d) Some non-metals are ductile.

Answer: (c) Generally, metals are ductile.

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3. Fill in the blanks:

- (a) Phosphorus is a very _____ non-metal.
- (b) Metals are _____ conductors of heat and _____.
- (c) Iron is _____ reactive than copper.
- (d) Metals react with acids to produce _____ gas.

Answer:

- (a) Phosphorus is a very reactive non-metal.
- (b) Metals are good conductors of heat and electricity.
- (c) Iron is more reactive than copper.
- (d) Metals react with acids to produce hydrogen gas.

4. Mark 'T' if the statement is true and 'F' if it is false.

- (a) Generally, non-metals react with acids. (False)
- (b) Sodium is a very reactive metal. (True)
- (c) Copper displaces zinc from zinc sulphate solution. (False)
- (d) Coal can be drawn into wires. (False)

5. Some properties are listed in the following Table. Distinguish between metals and non-metals on the basis of these properties.

Properties	Metals	Non-metals
1. Appearance 2. Hardness 3. Malleability 4. Ductility 5. Heat Conduction 6. Conduction of Electricity		

Answer:

Properties	Metals	Non-metals
1. Appearance 2. Hardness 3. Malleability 4. Ductility 5. Heat conduction 6. Conduction of electricity	Lustrous Hard Can be beaten into thin sheets Can be drawn into wires Good conductors of heat Good conductors of electricity	Dull Soft Cannot be beaten into thin sheets Cannot be drawn into wires Poor conductors of heat Poor conductors of electricity

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