

## Chapter 6: Metals and Nonmetals

### Worksheet 1

#### 1. Write T for true and F for false statement.

- (i) Metals can be drawn into fine wires.
- (ii) Nonmetals do not make a ringing sound.
- (iii) Metals on exposure to moist air for a long time acquire a bluish coating.
- (iv) The metallic oxides are acidic in nature.
- (v) Lead is used in making bullets.

#### 2. Fill in the blanks.

- (i) Nonmetals cannot be beaten into thin sheets, so, they are \_\_\_\_\_ .
- (ii) \_\_\_\_\_ is the best conductor of electricity.
- (iii) Sulphur is \_\_\_\_\_ at room temperature.
- (iv) \_\_\_\_\_ metal is used in making radiators of automobiles.
- (v) \_\_\_\_\_ are generally hard.

#### 3. Define the following.

- (i) Ductility
- (ii) Malleability
- (iii) Cations
- (iv) Alloy
- (v) Metalloid

#### 4. Answer the following questions.

- (i) Why are nonmetals nonmalleable?
- (ii) Define sonority.
- (iii) Mention two uses of gold.
- (iv) Is iodine soluble in ethanol and other organic solvents?
- (v) Name the elements present in alloy magnalium.

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### Worksheet 2

#### 1. Fill in the blanks.

- (i) Nonmetallic oxides are generally \_\_\_\_\_ in nature.
- (ii) \_\_\_\_\_ is the only metal that is liquid at room temperature.
- (iii) \_\_\_\_\_ is the most abundant metal found in the earth's crust.
- (iv) \_\_\_\_\_ are nonsonorous.
- (v) Copper and \_\_\_\_\_ are present in alloy aluminium bronze.

#### 2. Complete and balance the following equations.

- (i)  $2\text{Mg} + \text{O}_2 \longrightarrow \text{MgO}$
- (ii)  $\text{Fe} + 3\text{O}_2 + x\text{H}_2\text{O} \longrightarrow 2\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
- (iii)  $4\text{Ag} + \text{O}_2 \longrightarrow \text{Ag}_2\text{O}$
- (iv)  $\text{Mg} + \text{HCl} \longrightarrow \text{MgCl}_2 + \text{H}_2$
- (v)  $\text{Cu} + \text{H}_2\text{O} + \text{CO}_2 + \text{O}_2 \longrightarrow \text{Cu}(\text{OH})_2 + \text{CuCO}_3$

#### 3. Match the columns.

Column A	Column B
(i) Cations	(a) Solid
(ii) Anions	(b) Liquid
(iii) Calcium	(c) Gas
(iv) Oxygen	(d) Positively charged
(v) Bromine	(e) Negatively charged

#### 4. Answer the following questions.

- (i) Why do we get thin foils of metals?
- (ii) What does alloying prevent?
- (iii) What happens when metals react with dilute acids?
- (iv) Which nonmetal is used as rocket fuel?
- (v) Which form of carbon is good conductor of electricity?