

17.8.21

Ch-4

Exercise-III HW

Date \_\_\_\_\_  
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(1) Solution:

(a) (i) Diamond

(ii) Graphite

(iii) coal

(b) Diamond is used as gem.

(c) (i) copper.

(ii) Aluminium as these are good conductors of electricity.

(d) (i) Gold.

(ii) Silver as these are shining, lustrous and ductile.

(e) Plastic is used as insulator as it is a bad conductor of electricity.

(3) Solution:

(a) Iron: To make machine tools and building material.

(b) Brass: To make water taps and utensils.

(c) coal: coal is used as fuel also used in thermal power plant to produce electricity.

(3) a) Steel is good conductor of heat to cook food, pan is made of steel where as wood is insulator of heat and to hold, handle is made up of wood.

- (b) Graphite leaves mark on the paper and makes it black.
- (c) Argon is insulator gas and protect the element of bulb from oxidation and burning. Hence increases bulb's life.

**OBJECTIVE TYPE QUESTIONS**

1. Fill in the blanks :
- (a) Atomicity refers to the number of atoms in the molecule of an element.
- (b) The most abundant element in the earth's crust is oxygen.
- (c) A metal which is a liquid at room temperature is mercury.
- (d) The most abundant element in the atmosphere is nitrogen.
- (e) A metal which is a poor conductor of electricity is tungsten.
- (f) A diatomic gaseous element is oxygen.
- (g) A liquid non-metal is Bromine.

3. Indicate whether the following statements are *true* or *false*.
- (a) A compound is made up of just one kind of atom. F
- (b) Metals reflect light and are good conductors of electricity. T
- (c) Metals can be polished. T
- (d) Elements are made up of compounds. F
- (e) All elements are artificially prepared. F
- (f) Molecules can exist independently. T
- (g) Molecules combine to form atoms. F
- (h) Noble gases are highly reactive. F
- (i) Ozone is a triatomic molecule. T

2. Match the columns :

Column A	Column B
(a) Metals	(i) Non-reactive
(b) Molecules	(ii) Brittle
(c) Non-metals	(iii) Lustrous
(d) Noble gases	(iv) Smallest unit of compound

**MULTIPLE CHOICE QUESTIONS**

Tick (✓) the correct alternative from the choice given for the following statements :

1. All pure substances have
- (a) the same physical state
- (b) the same colour
- (c) the same composition
- (d) a definite set of properties