

Read the text carefully then answer the questions:

Metal is a chemical element that, in general, is a good conductor of heat and electricity. Silver (Ag) and copper (Cu) are some of the most efficient metals and are often used in electronics.

Metals are very reactive, some more than others, but most form compounds with other elements quite easily. Sodium (Na) and potassium (K) are some of the most reactive metals. Metals transform to liquid from solid and to gas from liquid at definite temperatures (melting and boiling points), which are high for most of metals (except mercury, sodium and potassium).

The physical properties of metals can be easily explained in terms of this "electron sea" model of metallic bonding. Metals reflect equally nearly all visible electro-magnetic waves. Therefore the color of the most of the metals is white or silvery-white (except copper and gold).

- Metals are ductile (they can be drawn into wires) and metals are malleable (they can be pounded into thin sheets)
- Metals have relatively high melting points and remain in the liquid state over a wide temperature range.
- The transition metals have higher melting points than main group metals.
- Metals have varying degrees of hardness.

Metals are usually shiny. They are lustrous due to the metallic bonding, contributing free electrons to the metal crystal structure and providing an ability of metals to reflect light when polished.

SECTION ONE: reading comprehension:

1. Answer the following questions according to the text: ?(6pts)

- Give a brief definition of metal.
- How can metal be reactive? Give examples.
- What makes metal shiny?

2. Match words with their synonyms/ opposites: (3pts)

- |              |          |
|--------------|----------|
| 1. transform | - rarely |
| 2. High      | -cable   |
| 3. Usually   | - change |
| 4. Wire      | - low    |
| 5. Large     | - black  |
| 6. white     | - wide   |

3. What do the underlined words refers to: ( 3 pts)      -Are (\$1)      - which (\$1)      - Can be easily explained (\$2)

SECTION TWO:

1. Rewrite sentence B using the reported speech: (3pts)

- ❖ He says: "you can go now"
- ❖ I told him: "I launched a new project yesterday"

2. Complete the table adding the suffixes ic- ness- ity: (3pts)

-thick	-----
-meter	-----
-flexible	-----
-cube	-----
-automate	-----
-ductile	-----

3-match words with their definitions: (2pts)

- A good electrical conductor colored ductile and malleable metal.
- A very malleable metal which verge on grey.
- A precious metal, white verge on grey.
- Light metal silvery white, malleable, which burn with a dazzling flame.

a- (Tin)

b- (Copper)

C- (Platinum)

D- (Magnesium)