

**A. Fill in the blanks:**

1. \_\_\_\_\_ is the example of insulator.
2. Electric cell has \_\_\_\_\_ terminals.
3. An electric gadget to break the electric circuit is known as \_\_\_\_\_ .
4. \_\_\_\_ is the good conductor of electricity.
5. Materials that allow electric current to pass through them are called \_\_\_\_\_.
6. The thin wire that gives off light is called the \_\_\_\_\_ of the bulb.
7. \_\_\_\_\_ in motion is called wind.
8. \_\_\_\_\_ occupies space.
9. The component of air used by plants for photosynthesis is called \_\_\_\_\_.
10. Fine hair and \_\_\_\_\_ are present inside the nose to prevent dust particles from getting into the respiratory system.
11. \_\_\_\_\_ is essential for life in earth.
12. \_\_\_\_\_ gas in the atmosphere supports burning.

**B. Choose the correct option:**

1. To prevent electric shocks metallic electrical wires are covered with  
a) cotton      b) plastic      c) aluminium      d) copper
2. An example of an conductor is  
a) rubber      b) plastic      c) copper      d) option a and b
3. Filament of a bulb is made up of  
a) aluminium      b) tungsten      c) plastic      d) rubber
4. Materials that do not allow electric current to pass through them are called  
a) conductors      b) insulators      c) transparent      d) opaque
5. The component of air used by green plants to make their food is  
a) carbon dioxide      b) nitrogen      c) oxygen      d) none of these
6. The component of air which supports burning is  
a) nitrogen      b) carbon dioxide      c) oxygen      d) option a and b

C. Name the following:

1. A combination of two or more cells
2. An alloy used to make filament of a bulb
3. An electric gadget to break the electric circuit
4. The envelope of air that surrounds the earth is known as

D. The question below consists of an Assertion and a Reason. Use the following key to choose the appropriate answer.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true

1. Assertion(A): Copper is used to make electric wires.

Reason(R) : Copper is a poor conductor of electricity.

2. Assertion(A):Air is an insulator.

Reason(R) : Those materials that do not allow electric current to pass through them are called insulators.

3. Assertion(A): Air is a mixture of gases.

Reason(R) : Air is made up of nitrogen, oxygen, carbon dioxide and other gases.

4. Assertion(A): We cannot survive without air.

Reason(R) :Air is not essential for respiration.

E. Answer the following:

1. Define: a) Filament b) Battery c) Conductor d) Wind
  2. Differentiate between conductor and insulator with example.
  3. Name any 4 devices in which electric switches are used.
  4. List any 3 activities that are possible due to presence of air.
  5. How does oxygen become available to animals and plants living in water and soil?
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