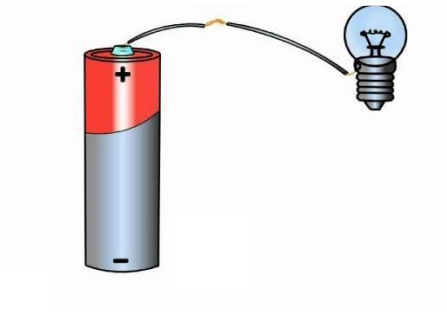
SCIENCE
CH: 9 ELECTRICITY AND CIRCUITS

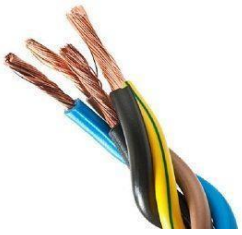
Class VI

I. **Choose the correct answer:**

1. An electric cell is a device which converts chemical energy into
   a. Heat energy b, light energy c. electrical energy
2. The filament of an electric bulb is made up of
   a. Iron metal b. Tungsten c. Aluminium
3. The circuit is said to be closed when the switch is in
   a. OFF position b. ON position
4. Identify the fault in the connection shown below:

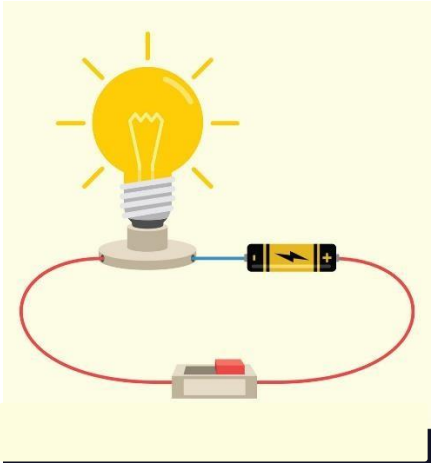


   a. The circuit is closed.
   b. The terminals of the cell are not connected properly to the terminals of the bulb.
   c. The switch is in the ÓFF' position.
5. Copper wires used as connecting wires in the electric circuits are covered by plastic coating. Why?



   a. Plastic is an insulator which does not allow electricity to pass through it.
   b. Plastic coating prevents accidental contact with conducting wires.
   c. All of these

II. **Draw a circuit diagram to represent the electric circuit shown below:**

6. 

III. **Answer the following questions:**

7. Name some objects which uses electricity for their working.
8. Define conductors and insulators. Give one example of each.
9. What will happen if you join the two terminals of a cell without connecting them through a bulb or switch?

10 Examine the picture shown below carefully and answer the following questions:

i. The bulb is not glowing even after all the connections are made. Why?

ii. What changes can be made in the circuit to make the bulb glow?