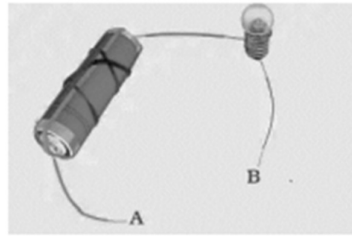


Marks: 25

Time:20 mins

I. Choose the correct option in the following questions:

1. Cell is a device which-
 - (a) converts chemical energy into electrical energy
 - (b) electrical energy into light energy
 - (c) electrical energy into magnetic energy
 - (d) None of these
2. Filament of a bulb is made up of -
 - (a) aluminium
 - (b) chromium
 - (c) platinum
 - (d) tungsten
3. Bulb glows only in-
 - (a) closed circuit
 - (b) open circuit
 - (c) in both circuits
 - (d) open circuit if bulb is not fused-
4. An example of a conductor is -
 - (a) tap water
 - (b) salt solution
 - (c) metal wire
 - (d) all of these
5. What will happen if you join the two terminals of a cell without connecting them through a switch or a bulb?
 - (a) There will be no impact to cell
 - (b) The chemicals in the electric cell get used up slowly and cell will produce electricity longer
 - (c) The chemicals in the electric cell get used up very fast and the cell will no longer produce electric current. It will stop working.
 - (d) None of these.
6. In the below arrangement, the bulb will not glow, if it is connected to



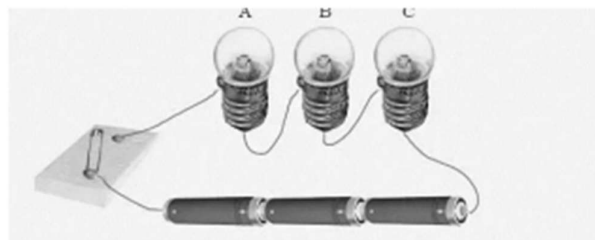
- (a) copper wire
- (b) metal clip
- (c) steel spoon
- (d) Plastic

7. Which is of these is true:



- (a) If the first bulb filament is broken, the second bulb will still glow
- (b) If the second bulb filament is broken, the first bulb will still glow
- (c) Both the bulb will glow even if one of the bulb filaments is broken
- (d) Neither of the bulb will glow

8.

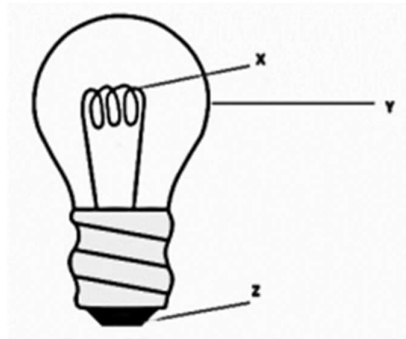


In the above diagram, the switch is moved to on position

- (a) Bulb A will glow first
- (b) Bulb B will glow first
- (c) Bulb C will be glow first
- (d) All the bulbs will glow together.

8

II. Label the following diagram of the bulb, what is X made of? What is its function?



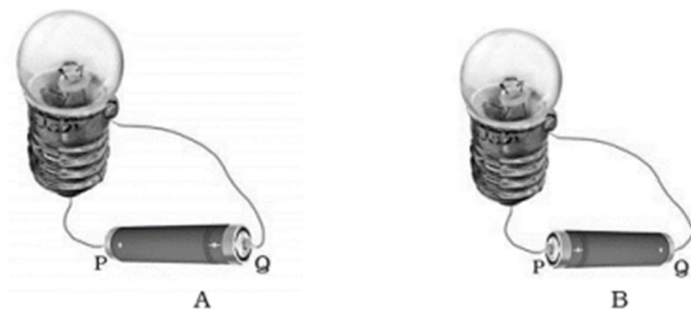
4

III. Fill in the blanks with appropriate words:

1. An electrical cell has two terminals,and.....
2. Materials through which current can pass are called
3. Materials through which current cannot pass are called
4. Our body is a conductor of electricity.
5. When a switch is off, the circuit becomes
6. We useto test the conductivity of a material.
7. A switch or a circuit.
8. Electricity we use in our homes is supplied from a

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IV. Source Based Question Figure A and B show a bulb connected to a cell in two different ways.



- (i) What will be the direction of the current in both cases?
- (ii) Will the bulb glow in both cases?
- (iii) Does the brightness of the glowing bulb depend on the direction of current through it?

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