

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Electric Current and its Effects

Q1. What is MCB and what is it used for?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q2. An electrician is carrying out some repairs in your house. He wants to replace a fuse by a piece of wire. Would you agree? Give reasons for your response.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q3. What are the reasons for excessive currents in the electrical circuits?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q4. The following Fig. shows four cells fixed on a board. Draw lines to indicate how you will connect their terminals with wires to make a battery of four cells.



Ans.

## Electric Current and its Effects

Q1. What is MCB and what is it used for?

Ans. These days Miniature circuit breakers (MCBs) are increasingly being used in place of fuses. These are switches which automatically turn off when current in a circuit exceeds the safe limit. We can turn them on and the circuit is once again complete.

Q2. An electrician is carrying out some repairs in your house. He wants to replace a fuse by a piece of wire. Would you agree? Give reasons for your response.

Ans. No, electrician should not replace a fuse by a piece of wire because for fuse, wires made from some special materials are used so that it melt quickly and break when large electric currents passes through them.

Q3. What are the reasons for excessive currents in the electrical circuits?

Ans. One reason for excessive currents in electrical circuits is the direct touching of wires. This may happen if the insulation on the wires has come off due to wear and tear. This may cause a short circuit. Another reason for excessive current can be the connection of many devices to a single socket. This may cause overload in the circuit.

Q4. The following Fig. shows four cells fixed on a board. Draw lines to indicate how you will connect their terminals with wires to make a battery of four cells.



Ans.

