Fuses

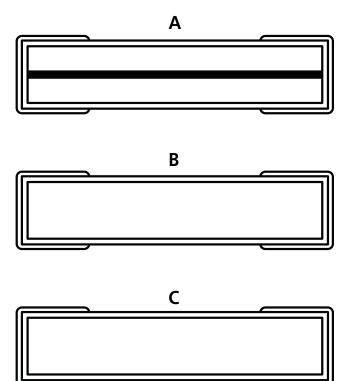**A fuse is an emergency switch. It is a thin wire which will easily melt and break the flow of electricity when a circuit becomes overloaded.**

A

Q1. Picture A shows a fuse in a circuit which is not overloaded.

(i) In picture B, draw how the wire looks when the current is beginning to be overloaded.

B

(ii) In picture C, draw how the wire looks a few moments after the circuit has been overloaded.

Q2. What happens to the current when you try to force a lot of electricity round the circuit?

C

✎ ....

Q3. (i) What happens to a wire when you try to force a lot of electricity around a circuit?

✎ ....

(ii) How can the change in the wire be dangerous?

✎ ....

Q4. What happens if a fuse wire is too thin for a circuit?

✎ ....

Q5. Name two pieces of electrical equipment which have their own fuse.

✎ .... ✎ ....

Q6. Are fuses with thick wires always the best to use? Explain your answer.

✎ ....

✎ ....