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Cool! I'am really happy

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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Science
(www.tutoracademy.net)
(Chapter 12: Electricity)
Class - 10
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Question 1:
On what factors does the resistance of a conductor depend?

Answer 1:
The resistance of a conductor depends upon the following factors:
➤ Length of the conductor
➤ Cross-sectional area of the conductor
➤ Material of the conductor
➤ Temperature of the conductor.

Question 2:
Will current flow more easily through a thick wire or a thin wire of the same material, when connected to the same source? Why?

Answer 2:
Resistance (R) is inversely proportional to the area of cross-section (A) of the wire. So, thicker the wire, lower is the resistance of the wire and vice-versa. Therefore, current can flow more easily through a thick wire than a thin wire.

$$R = \rho \frac{L}{A}$$
$$R \propto \frac{1}{A}$$

Question 3:
Let the resistance of an electrical component remains constant while the potential difference across the two ends of the component decreases to half of its former value. What change will occur in the current through it?

Answer 3:
According to the Ohm's law $V = IR$
If the resistance remains constant, V is directly proportional to I.
 $V \propto I$

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