

UNIT: ELECTRICAL CIRCUITS

ACT-BASED READING: TECHNICAL READING COMPREHENSION – OHM’S LAW IN ACTION ANSWER KEY

ACT-STYLE MULTIPLE CHOICE QUESTION:

Question 1 (Key Ideas and Details):

- According to Ohm’s Law, if resistance in a circuit increases while voltage remains constant, what will happen to the current?
 - A. It will increase.
 - B. **It will decrease.**
 - C. It will remain the same.
 - D. It will fluctuate randomly.

(Correct Answer: B – It will decrease.)

Question 2 (Craft and Structure):

- In the passage about Ohm’s Law, which of the following best describes the role of the second paragraph?
 - A. It provides a historical background on Georg Ohm.
 - B. It presents an opposing viewpoint on electrical resistance.
 - C. **It explains real-world applications of Ohm’s Law.**
 - D. It describes the mathematical derivation of Ohm’s Law.

(Correct Answer: C – It explains real-world applications of Ohm’s Law.)