

## UNIT: ELECTRICAL CIRCUITS

# ACT-BASED READING: ANALYZING A SCIENTIFIC ARGUMENT – SERIES VS. PARALLEL CIRCUITS ANSWER KEY

## ACT-STYLE MULTIPLE CHOICE QUESTION:

## Question 1 (Integration of Knowledge and Ideas):

- Which of the following best describes the key difference between series and parallel circuits as discussed in the excerpts?
  - A. Series circuits are more complex than parallel circuits.
  - B. Parallel circuits stop functioning if one component fails.
  - C. Series circuits use less wiring but are less reliable.
  - D. Parallel circuits are mainly used in low-power devices.

***(Correct Answer: C – Series circuits use less wiring but are less reliable.)***