

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) Why should high-impedance meters be used when measuring voltage on computer-controlled circuits?

2) What is meant when a meter reads "OL" when measuring ohms?

3) Why must an ohmmeter be connected to a disconnected circuit or component?

4) How is a diode tested using a digital meter?

5) How is an ammeter connected to an electrical circuit?

Answer Key

Testname: AEE6_SHORT9

- 1) A high-impedance meter is a meter that has a high internal resistance so as not to affect the circuit when it is connected to measure voltage.
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- 2) Different meters have different ways of indicating infinite resistance, or a reading higher than the scale allows. Examples of an over-limit display include OL, meaning over limit or overload.
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- 3) An ohmmeter applies a voltage so the circuit has to be off (open circuit) and the item being tested isolated from the rest of the circuit for best results.
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- 4) The meter applies roughly a 3-volt DC signal to the test leads. The voltage is high enough to cause a diode to work.
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- 5) An ammeter must be connected in the circuit itself in series unless a clamp-on ammeter is used.
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