

Name _____

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

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

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

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

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

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

Answer Key

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- 1) An ammeter must be connected in the circuit itself in series unless a clamp-on ammeter is used.
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- 2) 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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- 3) An ohmmeter applies a voltage so the circuit has to be off (open)
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- 4) Typical digital multimeter showing OL (over limit) on the readout with the ohms unit selected. This usually means that the unit being measured is open (infinite resistance) and has no continuity.
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- 5) 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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