

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) How is an ammeter connected to an electrical circuit?

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

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

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

Answer Key

Testname: AAEE_SHORT4

- 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.
Page Ref: 33
- 2) An ammeter must be connected in the circuit itself in series unless a clamp-on ammeter is used.
Page Ref: 35
- 3) An ohmmeter applies a voltage so the circuit has to be off (open)
Page Ref: 35
- 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.
Page Ref: 38
- 5) 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.
Page Ref: 38