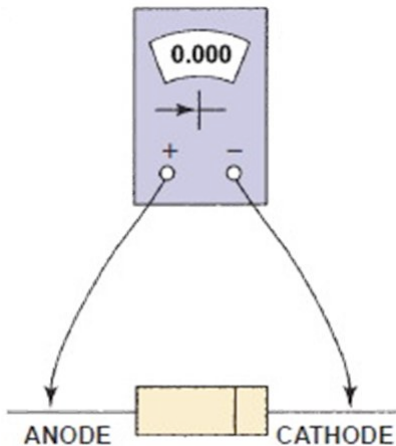


Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) "Breakdown voltage" is the voltage at which a Zener diode will do which of these? 1) _____
A) Allow reverse current to flow
B) Stop the flow of reverse current
C) Sustain damage as a result of current overload
D) Stop the flow of either forward or reverse current
- 2) To avoid damage from an electrostatic discharge, the technician should _____ before handling sensitive electronic components. 2) _____
A) wear dark clothing
B) be sure to wear insulated shoes
C) touch the housing of the component before removing it from the protective cover
D) touch a metal surface on the vehicle
- 3) The arrow in a symbol for a semiconductor device _____. 3) _____
A) points toward the negative
B) points away from the negative
C) is attached to the emitter on a transistor
D) Both A and C are correct.
- 4) A digital meter is set to the diode check setting. The following reading is observed. What does this indicate? 4) _____



- A) The diode is shorted.
B) The diode is open.
C) The diode is OK.
D) Not enough information

5) A material with four electrons in the valence ring is called a(n) _____.

5) _____

- A) compound
- B) conductor
- C) insulator
- D) semiconductor

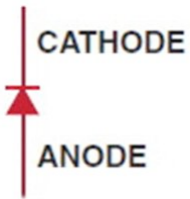
6) A transistor is controlled by the polarity and current at the _____.

6) _____

- A) collector
- B) emitter
- C) base
- D) both A and B

7) What does this symbol represent?

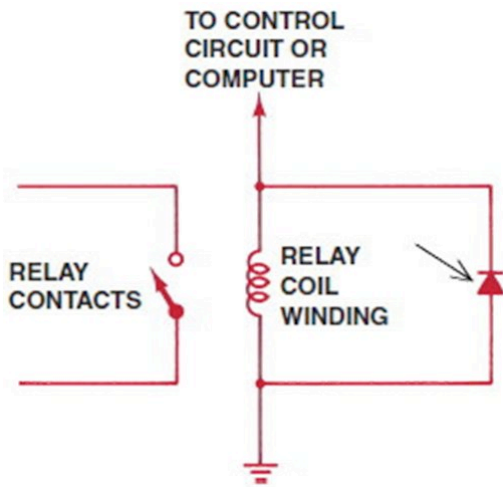
7) _____



- A) A diode
- B) A relay
- C) A zener diode
- D) An LED

8) What is the purpose of this component (arrow) in this schematic?

8) _____



- A) To control voltage spikes
- B) To hold the relay on once it is energized
- C) To protect the ground connection
- D) To protect the relay incase of reverse polarity

- 9) The positive lead of a diode is called the _____.
- A) cathode
 - B) anode
 - C) emitter
 - D) none of these

9) _____

- 10) A digital meter set to ohms is used to test diodes.
- A) True
 - B) False

10) _____