

Name _____

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

- 1) Another name for a computer ground is _____. 1) _____
A) Logic low
B) Zero
C) Reference low
D) All of the above
- 2) N-type material is silicone doped with which of these? 2) _____
A) Phosphorous
B) Arsenic
C) Antimony
D) Any of these
- 3) When the positive lead of a diode is connected to the positive side of a circuit, it is called _____ 3) _____
A) Forward bias
B) Negative bias
C) Reverse bias
D) None of these
- 4) A material with four electrons in the valence ring is called _____. 4) _____
A) A compound
B) A conductor
C) An insulator
D) A semiconductor
- 5) Technician A says that circuits using semiconductors may also be known as solid state circuits. Technician B says that the process of introducing a precise amount of impurity to a pure semiconductor material is known as doping. Who is right? 5) _____
A) Technician A
B) Technician B
C) Both technicians
D) Neither technician
- 6) An LED can be used in a _____. 6) _____
A) Headlight
B) Taillight
C) Brake light
D) All of the above

7) What does this symbol represent?

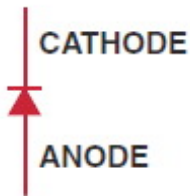
7) _____



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

8) What does this symbol represent?

8) _____



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

9) A zener diode is normally used for voltage regulation. A zener diode, however, can also be used for high voltage spike protection if connected _____.

9) _____

- A) Positive to anode, negative to cathode
- B) Positive to cathode, ground to anode
- C) Negative to anode, cathode to a resistor then to a lower voltage terminal
- D) Both A and C

10) P-type material is silicone doped with which of these?

10) _____

- A) Boron
- B) Indium
- C) Either A or B
- D) Neither A nor B

Answer Key

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1) D

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2) D

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3) A

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4) D

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5) C

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6) D

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7) A

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8) A

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9) B

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10) C

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