Automotive Technology 6th Edition	
Chapter 48 - Electronic Fundamentals	
Qhiz 48A	

Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the questi	on.
 1) To forward bias a silicon diode the A) voltage at the anode must exceed the voltage at the cathode by 0.5 to 0.7 volt B) voltage at the cathode must exceed the voltage at the anode by 0.3 to 0.5 volt C) voltage at the anode must exceed the voltage at the cathode by 0.3 to 0.5 volt D) anode must be connected to a resistor (300–500 ohms) and 12.0 volts, with the cathode also connected to 12.0 volts 	1)
2) What does this symbol represent?	2)
ANODE	
A) A diode B) A relay C) A zener diode D) An LED	
3) A transistor can A) switch on and off B) amplify C) throttle D) do all of the above	3)
4) It is OK to touch the terminals of electronic components as long as you are wearing leather shoes.A) TrueB) False	4)
 5) Clamping diodes A) are connected into a circuit with the positive voltage source to the cathode and the negative voltage to the anode B) are called despiking diodes C) can suppress transient voltages D) are all of the above 	5)

6) A diode installed across a coil with the cathode toward the battery positive is called a(n)	6)	
A) clamping diode		
B) forward-bias diode		
C) SCR		
D) transistor		
7) A DC-DC converter changes a DC voltage to a higher or lower AC voltage.	7)	
A) True		
B) False		
8) The arrow in a symbol for a semiconductor device	8)	
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.		
9) N-type material is silicone doped with which of these?	9)	
A) phosphorous		
B) arsenic		
C) antimony		
D) any of these		
(0) "Breakdown voltage" is the voltage at which a Zener diode will do which of these?	10)	
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		

Answer Key

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- 1) A Page Ref: 548
- 2) A
- Page Ref: 548
- 3) D Page Ref: 554
- 4) B Page Ref: 560
- 5) D Page Ref: 549
- 6) A Page Ref: 550
- 7) B Page Ref: 558
- 8) D Page Ref: 554
- 9) D Page Ref: 546
- 10) A Page Ref: 549