

Name \_\_\_\_\_

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

- 1) Which item is a computer input sensor? 1) \_\_\_\_\_  
A) RPM  
B) Throttle position angle  
C) Engine coolant temperature  
D) All of the above
  
- 2) Computer speed is measured in \_\_\_\_\_. 2) \_\_\_\_\_  
A) Baud rate  
B) Clock speed (Hz)  
C) Voltage  
D) Bytes
  
- 3) A controller area network, or CAN, vehicle network system allows communications at speeds of \_\_\_\_\_. 3) \_\_\_\_\_  
A) 125,000 to 1,000,000 bits per second  
B) 8192 bits per second  
C) 10 to 20 kilo bits per second  
D) 10,000 to 10,400 bits per second
  
- 4) What unit of electricity is used as a signal for a computer? 4) \_\_\_\_\_  
A) Volt  
B) Ohm  
C) Ampere  
D) Watt
  
- 5) Serial data is data that is transmitted by \_\_\_\_\_. 5) \_\_\_\_\_  
A) A series of rapidly changing voltage signals  
B) Magnetic fields  
C) Light  
D) Vacuum
  
- 6) A voltage signal is cycling at a fixed rate from 0 to 12 volts. The ratio of on-time relative to the period of the cycle is the \_\_\_\_\_. 6) \_\_\_\_\_  
A) Duty cycle  
B) Pulse width modulation  
C) Frequency  
D) Amplitude
  
- 7) All OBD II vehicles use what type of read-only memory? 7) \_\_\_\_\_  
A) ROM  
B) PROM  
C) EPROM  
D) EEPROM

- 8) Some CAN systems use pin number \_\_\_\_\_ and \_\_\_\_\_ in the DLC to communicate with the scan tool. 8) \_\_\_\_\_
- A) 6, 14
  - B) 4, 5
  - C) 4, 16
  - D) 5, 16
- 9) The SAE term for the vehicle computer is \_\_\_\_\_. 9) \_\_\_\_\_
- A) PCM
  - B) ECM
  - C) ECU
  - D) Controller
- 10) A DMM set to read ohms is connected across terminals 6 and 14 of the DLC. The meter reads 60 ohms with the key off. This indicates \_\_\_\_\_. 10) \_\_\_\_\_
- A) A CAN BUS shorted to ground
  - B) A normal condition
  - C) Headlights are OFF
  - D) Bad UART output

## Answer Key

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1) D

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2) B

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3) A

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4) A

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5) A

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6) A

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7) D

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8) A

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9) A

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10) B

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