

Name \_\_\_\_\_

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

- 1) Analog signals from sensors are changed to digital signals for processing by the computer through which type of circuit? 1) \_\_\_\_\_
  - A) Digital
  - B) Analog
  - C) Analog-to-digital converter
  - D) PROM
- 2) Which computer component generates a steady stream of one-bit long voltage pulses? 2) \_\_\_\_\_
  - A) Clock generator
  - B) Central processing unit
  - C) Volatile memory
  - D) Capacitor
- 3) All OBDII vehicles use what type of read-only memory? 3) \_\_\_\_\_
  - A) ROM
  - B) PROM
  - C) EPROM
  - D) EEPROM
- 4) The "brain" of the computer is the \_\_\_\_\_. 4) \_\_\_\_\_
  - A) PROM
  - B) RAM
  - C) CPU
  - D) AD converter
- 5) Which computer function describes how the computer handles inputs? 5) \_\_\_\_\_
  - A) Process
  - B) Input
  - C) Storage
  - D) Output
- 6) The four basic computer functions include \_\_\_\_\_. 6) \_\_\_\_\_
  - A) writing, processing, printing, and remembering
  - B) input, processing, storage, and output
  - C) data gathering, processing, output, and evaluation
  - D) sensing, calculating, actuating, and processing
- 7) An onboard automotive computer uses up to \_\_\_\_\_ of its processing power for self-diagnosis. 7) \_\_\_\_\_
  - A) 90%
  - B) 40%
  - C) 5 to 10%
  - D) 4%

8) Which sensor is used to determine engine load?

8) \_\_\_\_\_

- A) MAP
- B) RPM
- C) TP
- D) ECT

9) On a PWM controlled device, the ratio of on time relative to the period of the complete cycle is the \_\_\_\_\_.

9) \_\_\_\_\_

- A) duty cycle
- B) pulse width modulation
- C) frequency
- D) amplitude

10) Which item is a computer input sensor?

10) \_\_\_\_\_

- A) RPM
- B) Throttle position angle
- C) Engine coolant temperature
- D) All of the above

## Answer Key

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- 1) C  
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- 2) A  
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- 3) D  
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- 4) C  
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- 5) A  
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- 6) B  
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- 7) B  
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- 8) A  
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- 9) A  
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- 10) D  
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