Automotive Technology 7th Edition
Chapter 70: Computer Fundamentals
Short Answer Quiz

Name: Date:

1. Explain the primary difference between ROM and RAM in the context of a vehicle computer.

2. Describe the process of input conditioning in a digital computer and its significance.

3. How does an analog-to-digital (AD) converter function in a digital computer, and why is it essential?

4. What is the role of the CPU in a computer system, and why is it often referred to as the "brain" of the computer?

5. Elaborate on the concept of "pulse-width modulation" and its application in vehicle computers.

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6. How do onboard computers communicate with each other in a typical vehicle, and why is this communication crucial?

7. What is the significance of EEPROM in OBD-II vehicles, and how does it differ from EPROM?

8. Describe the function of an actuator in a computer system and provide examples of its applications in vehicles.

9. How does a digital computer handle the analog input signals it receives?

10. Explain the term "duty cycle" in the context of pulse-width modulation and its importance in controlling devices.