

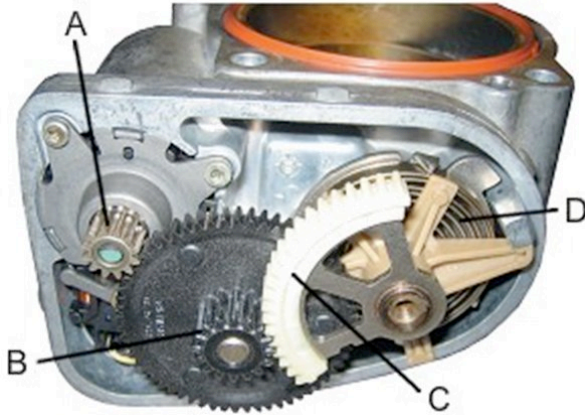
Name \_\_\_\_\_

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

- 1) Technician A says that an electronic throttle control uses a stepper motor. Technician B says that an electronic throttle control uses is spring loaded to about 16% to 20% throttle opening. Which technician is correct? 1) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 2) The throttle plate actuator motor is what type of electric motor? 2) \_\_\_\_\_
  - A) Stepper motor
  - B) DC motor
  - C) AC motor
  - D) Brushless motor
  
- 3) A throttle body relearn procedure uses \_\_\_\_\_ to relearn proper idle speed. 3) \_\_\_\_\_
  - A) A scan tool
  - B) The ignition switch
  - C) A vacuum gauge
  - D) A relearn tool
  
- 4) The use of an electronic control (ETC) system allows the elimination of all of these EXCEPT the \_\_\_\_\_. 4) \_\_\_\_\_
  - A) Accelerator pedal
  - B) Mechanical throttle cable (most systems)
  - C) Cruise control actuator
  - D) Idle air control
  
- 5) When does the PCM perform a self test of the ETC system? 5) \_\_\_\_\_
  - A) During cruise speed when the throttle is steady
  - B) During deceleration
  - C) During acceleration
  - D) When the ignition switch is first rotated to the on position, before the engine starts

6) Which component in this photograph is the drive (motor) gear?

6) \_\_\_\_\_



- A) A
- B) B
- C) C
- D) D

7) A green wrench symbol is displayed on the dash. What does this mean?

7) \_\_\_\_\_

- A) A fault in the ETC in a Ford has been detected
- B) A fault in the ETC in a Honda has been detected
- C) A fault in the ETC in a Chrysler has been detected
- D) A fault in the ETC in a General Motors vehicle has been detected

8) The throttle body may be cleaned (if recommended by the vehicle manufacturer) if what conditions are occurring?

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

- A) Coast-down stall
- B) Rough idle
- C) Lower-than-normal idle speed
- D) Any of the above

9) Which of these tools is needed when diagnosing an electronic throttle system?

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

- A) Vacuum gauge
- B) Spark tester
- C) Pocket code reader
- D) Scan tool

10) With the ignition off and the key out of the ignition, what should happen if a technician uses a screwdriver to gently push on the throttle plate in an attempt to open the valve?

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

- A) Nothing. The throttle should be kept from moving by the motor, which is not energized with the key off.
- B) The throttle should move and stay where it is moved and not go back unless moved back.
- C) The throttle should move, and then spring back to the home position when released.
- D) The throttle should move closed, but not open further than the default position.

## Answer Key

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1) B

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2) B

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3) B

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4) A

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5) D

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6) A

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7) A

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8) D

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9) D

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10) C

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