

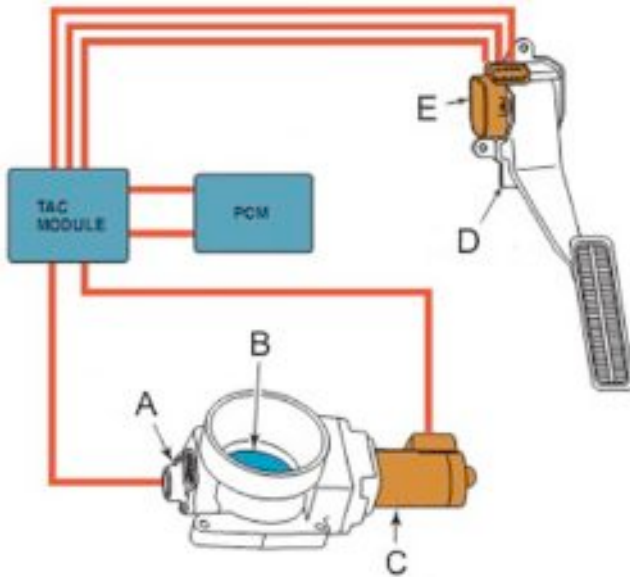
Name \_\_\_\_\_

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

- 1) A technician is checking the operation of the electronic throttle control system by depressing the accelerator pedal when the gear selector is in PARK. What is the most likely result if the system is functioning correctly? 1) \_\_\_\_\_
- A) The throttle goes to wide open when the accelerator pedal is depressed all the way.
  - B) No throttle movement
  - C) The throttle will open partially but not all the way.
  - D) The throttle will perform a self test by closing and then opening to the default position.
- 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 green wrench symbol is displayed on the dash. What does this mean? 3) \_\_\_\_\_
- 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.
- 4) When the ignition is first turned on a click noise is heard from under the hood of a vehicle equipped with ETC. Technician A says that this is the normal operation of the ETC self-test. Technician B says that the ETC motor should not move unless the engine is running. Which technician is correct? 4) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

5) Identify the throttle position sensor assembly in this diagram.

5) \_\_\_\_\_



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

6) The use of an electronic control (ETC) system allows the elimination of all of these EXCEPT \_\_\_\_\_.

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

- A) accelerator pedal
- B) mechanical throttle cable (most systems)
- C) cruise control actuator
- D) idle air control

7) 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?

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

- 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.

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

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



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

9) When does the PCM perform a self test of the ETC system?

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

- 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

10) The accelerator position sensor outputs 2 identical, redundant voltage signals.

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

- A) True
- B) False