Automotive Electrical and Engine Performance, 8th Edition Quiz 39B

Name			

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

 1) A throttle body relearn procedure uses to relearn proper idle speed. A) A scan tool B) The ignition switch C) A vacuum gauge D) A relearn tool 	1)
 2) A green wrench symbol is displayed on the dash. What does this mean? 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 	2)
 3) The actuator motor is controlled by the PCM through what type of circuit? A) Series B) Parallel C) H-bridge D) Series-Parallel 	3)
 4) The throttle plate is spring loaded to hold the throttle slightly open how far? A) 3% to 5% B) 8% to 10% C) 16% to 20% D) 22% to 28% 	4)
 5) The use of an electronic control (ETC) system allows the elimination of all of these EXCEPT the A) Accelerator pedal B) Mechanical throttle cable (most systems) C) Cruise control actuator D) Idle air control 	5)
 6) The throttle position sensor used in the throttle body assembly of an electronic throttle control (ETC) system is what type? A) A single potentiometer B) Two potentiometers that read in the opposite direction C) A Hall-effect sensor D) Either B or C 	6)
 7) The throttle body may be cleaned (if recommended by the vehicle manufacturer) if what conditions are occurring? A) Coast-down stall B) Rough idle C) Lower-than-normal idle speed D) Any of the above 	7)

- 8) After servicing the air filter on an ETC equipped vehicle, the technician has forgotten to connect8) _____the throttle motor wiring. What will happen when the vehicle is started?
 - A) The engine will start but not accelerate; idle speed between 1200 and 1600 RPM
 - B) The engine will start but not idle
 - C) The engine will perform normally, but the cruise control will not work
 - D) None of the above
- 9) Technician A says that an electronic throttle control uses a stepper motor. Technician B says that
 9) ______
 an electronic throttle control uses a vacuum controlled stepper motor to keep the throttle at a 16%-20% throttle opening. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 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?
 - 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.

10) _____

- 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 Testname: AEEP8_39B

1) B Page Ref: 570 2) A Page Ref: 567 3) C Page Ref: 565 4) C Page Ref: 564 5) A Page Ref: 563 6) D Page Ref: 566-567 7) D Page Ref: 569 8) A Page Ref: 567 9) D Page Ref: 565 10) C Page Ref: 563