

**Automotive Electrical and Engine Performance 9th Edition**  
**Chapter 19 – Security and Immobilizer Systems**  
**Multiple Choice Questions Quiz A**

1. What is the primary function of an immobilizer system in a vehicle?
  - a) To prevent unauthorized access to the trunk
  - b) To immobilize the wheels if the wrong key is used
  - c) To prevent the vehicle from starting without the correct key
  - d) To activate all vehicle alarms if tampered with
  
2. Which component of a typical immobilizer system contains the unique identification (ID) number?
  - a) The vehicle's ECU
  - b) The coil antenna in the steering column
  - c) The transponder within the key fob
  - d) The vehicle's BCM (Body Control Module)
  
3. What is the purpose of a transceiver in an immobilizer system?
  - a) It generates the high-frequency signal for key detection
  - b) It both receives and transmits signals to communicate with the key
  - c) It powers the immobilizer module
  - d) It activates the fuel pump if the key is valid
  
4. In a Chrysler Sentry Key Immobilizer System (SKIS), what occurs if the wrong key is used?
  - a) The vehicle will only start after a 30-second delay
  - b) The system will allow a limited start before cutting power
  - c) The starter motor is disabled, and the engine will not crank
  - d) Only the dashboard lights turn on without starting the engine

5. What system component prevents vehicle operation in a push button start system without a registered key fob?

- a) The keyless entry module
- b) The immobilizer module
- c) The ignition switch
- d) The transmission position switch

6. What is the purpose of the security light in a vehicle with an immobilizer system?

- a) It indicates normal operation when illuminated continuously
- b) It blinks to indicate the immobilizer system is active
- c) It illuminates during a fault, indicating the system may prevent engine start
- d) It signals the need for an immobilizer system reset

7. Which of the following actions should be avoided to prevent damaging an immobilizer key?

- a) Leaving the key in the vehicle while parked
- b) Storing it near high magnetic fields
- c) Using it continuously without battery replacement
- d) Handling the key with wet hands

8. What is the role of RFID technology in an immobilizer system?

- a) It powers the key's internal battery
- b) It verifies the correct key wirelessly through radio frequencies
- c) It physically locks the steering column
- d) It sends error signals when the wrong key is detected

9. Which Ford immobilizer system specifically uses a responder key technology for anti-theft protection?

- a) Passlock I
- b) Sentry Key Immobilizer
- c) Vehicle Anti-Theft System (VATS)
- d) Passive Anti-Theft System (PATS)

10. If the battery in a key fob dies, how can the vehicle typically be started?

a) By using a manual crank method

b) Through a key slot specifically designed for dead keys

c) By holding the key fob near the dashboard

d) By using the emergency override button on the steering wheel

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**Answer Key Quiz A**

**Correct Answers:**

1. c
2. c
3. b
4. c
5. b
6. c
7. b
8. b
9. d
10. b