

Name \_\_\_\_\_

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

- 1) The key or key fob contains a(n) \_\_\_\_\_ that transmits the security code. 1) \_\_\_\_\_
  - A) switch
  - B) transponder
  - C) AM transmitter
  - D) code button
  
- 2) How is data transmitted between the key and the steering column (lock cylinder)? 2) \_\_\_\_\_
  - A) By inductive coupling
  - B) By electrical contacts inside the lock cylinder
  - C) Transmitted from the key to the vehicle using the battery inside the key
  - D) Transferred from the key to the BCM using a small transmitter in the key
  
- 3) An immobilizer fault may occur if the \_\_\_\_\_. 3) \_\_\_\_\_
  - A) key is dropped onto a hard surface
  - B) key gets wet
  - C) key is exposed to any kind of magnetic field
  - D) Any of the above
  
- 4) The vehicle immobilizer systems works by disabling the vehicle \_\_\_\_\_ system in case of a theft attempt. 4) \_\_\_\_\_
  - A) shifter
  - B) parking brake
  - C) fuel or ignition
  - D) ignition lock
  
- 5) A shock sensor is part of the vehicle \_\_\_\_\_ system. 5) \_\_\_\_\_
  - A) content theft protection
  - B) fuel injection
  - C) immobilizer
  - D) speed sensor
  
- 6) What is the purpose and function of an immobilizer system? 6) \_\_\_\_\_
  - A) To prevent entry inside the vehicle
  - B) Only allows the use of the ignition key that is properly matched to the lock cylinder
  - C) Prevents the vehicle from starting or running if the correct key is not used
  - D) Requires that the driver enter a password to start the vehicle
  
- 7) If an immobilizer-related fault occurs, what symbol is likely to be displayed on the dash? 7) \_\_\_\_\_
  - A) "IM"
  - B) A padlock symbol
  - C) The "check engine" light
  - D) The "service engine soon" light

- 8) Tamper mode is when what occurs? 8) \_\_\_\_\_
- A) The security lamp flashes about once per second if the system detects a bad key, lock cylinder, or security-related wiring problem. The engine will not start or if it does start, will not continue to run.
  - B) The security dash lamp comes on for 2 to 5 seconds for a bulb check when the ignition is turned on, then goes out.
  - C) The engine will start and run as normal except that the security warning light on the dash will be on all the time.
  - D) Any of the above, depending on the make, model, and year of the vehicle.
- 9) Some Ford security system keys can be programmed using \_\_\_\_\_. 9) \_\_\_\_\_
- A) a lock programmer
  - B) two programmed keys
  - C) one original key
  - D) a door lock key
- 10) A typical Ford immobilizer system is called \_\_\_\_\_. 10) \_\_\_\_\_
- A) VATS
  - B) PATS
  - C) Passlock
  - D) SKIS

## Answer Key

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1) B

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2) A

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3) D

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4) C

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5) A

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6) C

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7) B

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8) A

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9) B

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10) B

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