

Name \_\_\_\_\_

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

- 1) Which starting system component uses a small amount of current to control a large amount of current? 1) \_\_\_\_\_  
A) Starter solenoid or relay  
B) Starter brushes  
C) Starter drive  
D) Neutral safety switch
  
- 2) Most remote start systems will shut off the engine after \_\_\_\_\_ minutes unless reset by the remote fob. 2) \_\_\_\_\_  
A) 10  
B) 5  
C) 30  
D) None of these
  
- 3) A starter motor rotates about \_\_\_\_\_ times faster than the engine. 3) \_\_\_\_\_  
A) 18  
B) 10  
C) 5  
D) 2
  
- 4) The starter motor can produce up to \_\_\_\_\_ horsepower. 4) \_\_\_\_\_  
A) 8  
B) 5  
C) 20  
D) None of these
  
- 5) Technician A says that a defective solenoid can cause a starter whine. Technician B says that a defective starter drive can cause a starter whining noise. Which technician is correct? 5) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
  
- 6) On a vehicle with computer-controlled starting, some key-operated ignition systems, and most push-button-to-start systems use the PCM to crank the engine. The ignition switch start position or the push-to-start button is used as a(n) \_\_\_\_\_ signal to the PCM. 6) \_\_\_\_\_  
A) output  
B) control  
C) input  
D) relay

- 7) The overrunning clutch (starter drive) accomplishes which of the following? 7) \_\_\_\_\_
- A) Separates the starter motor from the starter solenoid
  - B) Brings the starter motor into contact with the ignition circuit
  - C) Lets the starter motor rotate in either direction
  - D) Protects the starter motor from spinning too rapidly
- 8) On a vehicle equipped with a stop/start system, the engine stops when the vehicle is stopped at a traffic light. This system increases \_\_\_\_\_. 8) \_\_\_\_\_
- A) fuel economy
  - B) CO2 emissions
  - C) hydrocarbon emissions
  - D) idle speed
- 9) The neutral safety switch is located \_\_\_\_\_. 9) \_\_\_\_\_
- A) between the starter solenoid and the starter motor
  - B) inside the ignition switch itself
  - C) between the ignition switch and the starter solenoid
  - D) in the battery cable between the battery and the starter solenoid
- 10) Which safety device is used on vehicles with manual transmissions? 10) \_\_\_\_\_
- A) Clutch safety switch
  - B) Neutral safety switch
  - C) Both A and B
  - D) Neither A nor B