

Name _____

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

- 1) How many brushes are typically used in the automotive starter? 1) _____
A) 4
B) 2
C) 8
D) None of these

- 2) Which starting system component uses a small amount of current to control a large amount of current? 2) _____
A) Starter solenoid or relay
B) Starter brushes
C) Starter drive
D) Neutral safety switch

- 3) Permanent magnets are commonly used for what part of the starter? 3) _____
A) The armature
B) The solenoid
C) The field coils
D) The commutator

- 4) Normal cranking speed of an engine is about _____. 4) _____
A) 2000 RPM
B) 1500 RPM
C) 1000 RPM
D) 200 RPM

- 5) A starter motor rotates about _____ times faster than the engine. 5) _____
A) 18
B) 10
C) 5
D) 2

- 6) Series-wound electric motors _____. 6) _____
A) Produce electrical power
B) Produce maximum power at 0 RPM
C) Produce maximum power at high RPM
D) Use a shunt coil

- 7) On computer-controlled starting, some key-operated ignition systems and most push-button-to-start systems the computer (PCM) is used to crank the engine. The ignition switch start position or the push-to-start button is used as an input signal to the _____. 7) _____
A) Starter solenoid
B) Starter relay
C) PCM
D) Starter motor

- 8) A type of starter used on older Ford vehicles is called a _____. 8) _____
- A) Positive engagement starter
 - B) Gear-reduction starter
 - C) Moveable pole shoe starter
 - D) Both A and C
- 9) Which brushes are NOT insulated? 9) _____
- A) Ground
 - B) Power
 - C) No brushes are insulated
 - D) None of these
- 10) Most remote start systems will shut off the engine after _____ minutes unless reset by the remote key fob. 10) _____
- A) 10
 - B) 5
 - C) 30
 - D) None of these

Answer Key

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- 1) A
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- 2) A
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- 3) C
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- 4) D
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- 5) A
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- 6) B
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- 7) C
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- 8) A
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- 9) A
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- 10) A
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