

Name _____

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

- 1) The brushes are used to transfer electrical power between _____. 1) _____
 - A) Field coils and the armature
 - B) The commutator and the segments
 - C) The solenoid and the field coils
 - D) The armature and the solenoid

- 2) 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(an) _____ signal to the PCM. 2) _____
 - A) Output
 - B) Control
 - C) Input
 - D) Relay

- 3) Technician A says that the starter control circuit includes the ignition switch, neutral safety (clutch) switch, and solenoid. Technician B says that the power circuit includes the battery, battery cables, solenoid, and starter motor. Who is right? 3) _____
 - A) A only
 - B) B only
 - C) Both A and B
 - D) Neither A nor B

- 4) The overrunning clutch (starter drive) accomplishes which of the following? 4) _____
 - 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

- 5) The neutral safety switch is located _____. 5) _____
 - 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

- 6) Which starting system component uses a small amount of current to control a large amount of current? 6) _____
 - A) Starter solenoid or relay
 - B) Starter brushes
 - C) Starter drive
 - D) Neutral safety switch

7) Which brushes are not insulated? 7) _____
A) Ground
B) Power
C) No brushes are insulated
D) None of these

8) Series wound electric motors _____. 8) _____
A) Produce electrical power
B) Produce maximum power at 0 RPM
C) Produce maximum power at high RPM
D) Use a shunt coil

9) How many brushes are typically used in the automotive starter? 9) _____
A) 4
B) 2
C) 8
D) None of these

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

Answer Key

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1) A

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2) C

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3) C

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4) D

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5) C

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6) A

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7) A

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8) B

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9) A

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10) A

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