

Name: _____ Date: _____

1. What principle do all starter motors operate on?
 - A. The field coils rotate in the opposite direction from the armature.
 - B. Opposite magnetic poles repel.
 - C. Like magnetic poles repel.
 - D. The armature rotates from a strong magnetic field toward a weaker magnetic field.

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

3. Which of the following statements about a defective solenoid is true?
 - A. It can cause a starter whine.
 - B. It can cause the starter to overheat.
 - C. It can increase the starter's efficiency.
 - D. It has no effect on the starter's noise.

4. Where is the neutral safety switch located?
 - 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.

5. What are the brushes in a starter motor used for?
 - A. Transferring electrical power between field coils and the armature.
 - B. Transferring power between the commutator segments.
 - C. Transferring power between the solenoid and the field coils.
 - D. Transferring power between the armature and the solenoid.

6. As a starter motor rotates faster _____
 - A. It draws more current from the battery.
 - B. It generates less CEMF.
 - C. It draws less current from the battery.
 - D. It produces a greater amount of torque.

7. What is the normal cranking speed of an engine?
 - A. 2,000 RPM.
 - B. 1,500 RPM.
 - C. 1,000 RPM.
 - D. 200 RPM.

8. A starter motor rotates approximately how many times faster than the engine?

- A. 18 times.
- B. 10 times.
- C. 5 times.
- D. 2 times.

9. Which part of the starter commonly uses permanent magnets?

- A. Armature.
- B. Solenoid.
- C. Field coils.
- D. Commutator.

10. What components are included in a stop-start system?

- A. A special starter.
- B. An AGM or ELA battery.
- C. A switch to turn the system off in some vehicles.
- D. All of the above.

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Chapter 49

Multiple Choice Quiz A

Answer Key

1. D

2. B

3. A

4. C

5. A

6. C

7. D

8. A

9. C

10. D