

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What does a discolored commutator on the armature indicate?
  - A. The armature is new
  - B. The brushes may not have been making good contact with the segments
  - C. The armature is functioning optimally
  - D. The brushes are new
  
2. What is the result of normal operation of the starter on the brightness of the dome light?
  - A. The light remains bright
  - B. The light goes out completely
  - C. The light dims slightly
  - D. The light becomes brighter
  
3. What could cause a starter motor to whine?
  - A. Defective flywheel
  - B. High resistance in the battery cables
  - C. Defective ignition switch
  - D. Low battery voltage
  
4. What is a possible cause of a starter producing a grinding noise?
  - A. Defective starter drive unit
  - B. High internal starter motor resistance
  - C. Defective ignition switch
  - D. High resistance in the battery cables
  
5. After installing the starter, what should the technician do next?
  - A. Attach the negative battery cable
  - B. Check the starter for proper operation
  - C. Perform a starter voltage drop test before starting the engine
  - D. Both A and B
  
6. What does a reading of 878 millivolts during a voltage drop test indicate?
  - A. The positive battery cable resistance is too high
  - B. The starter is defective
  - C. The battery is fully charged
  - D. The solenoid is functioning optimally
  
7. What is the purpose of the starter solenoid?
  - A. To increase battery voltage
  - B. To control the starter motor
  - C. To charge the battery
  - D. To reduce current draw

8. What can cause the starter to rotate slowly?

- A. High resistance in the battery cables or connections
- B. A fully charged battery
- C. A functional ignition switch
- D. A clean and tight ground connection

9. What is the result of a shorted or grounded armature of field coils inside the starter on the brightness of the dome light?

- A. The light remains bright
- B. The light goes out or almost goes out
- C. The light dims slightly
- D. The light becomes brighter

10. What is the purpose of the starter drive engagement yoke?

- A. To increase current draw
- B. To control the starter solenoid
- C. To engage with the flywheel
- D. To reduce battery voltage

Automotive Technology 7th Edition

Chapter 50

Multiple Choice Quiz B

Answer Key

1. B

2. C

3. C

4. A

5. D

6. A

7. B

8. A

9. B

10. C