

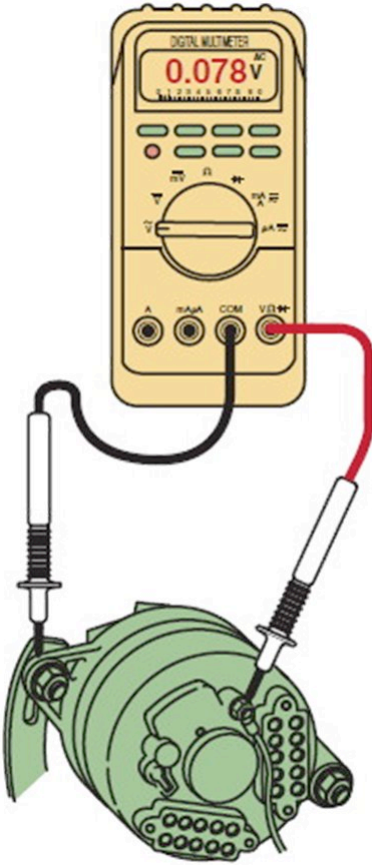
Name \_\_\_\_\_

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

- 1) Technician A says that by full fielding the alternator, you are bypassing the voltage regulator. Technician B says that full fielding can possibly damage electronic circuits, so it is no longer a recommended test. Who is right? 1) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 2) An acceptable charging circuit voltage on a 12 volt system is \_\_\_\_\_. 2) \_\_\_\_\_  
A) 13.5 to 15 volts  
B) 12.6 to 15.6 volts  
C) 12 to 14 volts  
D) 14.9 to 16.1 volts
- 3) Technician A says that a voltage drop test of the charging circuit should only be performed when current is flowing through the circuit. Technician B says to connect the leads of a voltmeter to the positive and negative terminals of the battery to measure the voltage drop of the charging system. Who is right? 3) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 4) The maximum allowable alternating current (AC) in amperes that is being sent to the battery from the alternator is \_\_\_\_\_. 4) \_\_\_\_\_  
A) 0.04 A  
B) 1 to 3 A  
C) 3 to 4 A  
D) 10% of the rated output of the AC Generator
- 5) When performing an alternator output test, which of these tools would the technician choose? 5) \_\_\_\_\_  
A) An electronic torque wrench  
B) An ohmmeter  
C) A load tester  
D) A vacuum gauge
- 6) The diodes are usually replaced \_\_\_\_\_. 6) \_\_\_\_\_  
A) individually, only if open  
B) individually, only if shorted  
C) as a replaceable rectifier component  
D) as part of the stator assembly

7) What test is being performed in this illustration (engine running)?

7) \_\_\_\_\_



- A) AC ripple voltage test
- B) Alternator voltage output test
- C) Charging system current test
- D) Diode test

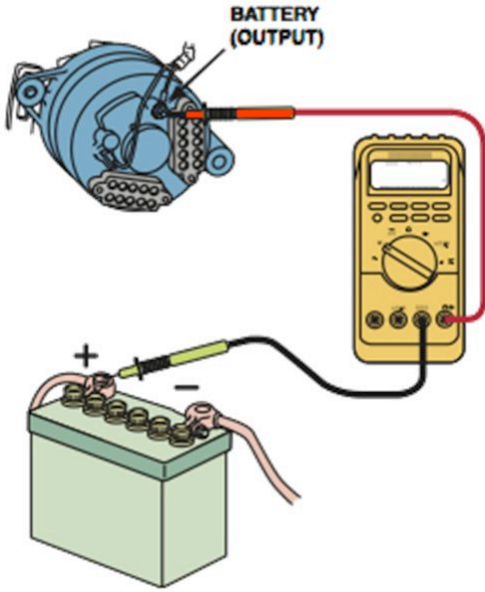
8) Which of the following would NOT be used to check for drive belt wear?

8) \_\_\_\_\_

- A) Groove color change
- B) A tension gauge
- C) A belt wear gauge
- D) Belt deflection between two pulleys

9) What test is being performed in this illustration (engine running?)

9) \_\_\_\_\_



- A) Alternator output voltage drop test
- B) Charging current test
- C) Alternator ground circuit test
- D) Battery voltage test

10) A vehicle battery is consistently low on voltage. Technician A says to disconnect the battery with the engine running to test for proper alternator output. Technician B says that a loose alternator belt may cause this problem. Who is right?

10) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

## Answer Key

Testname: AT6\_55B

1) C

Page Ref: 634

2) A

Page Ref: 633

3) A

Page Ref: 637

4) D

Page Ref: 636

5) C

Page Ref: 638

6) C

Page Ref: 642

7) A

Page Ref: 636

8) A

Page Ref: 634-635

9) A

Page Ref: 637

10) B

Page Ref: 638