Automotive Electrical and Engine Performance, 8th Edition
Quiz 20A

Name_____

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

1) When the rotor is removed from the rear housing the brushes will fall out. 1) _____
   A) True
   B) False

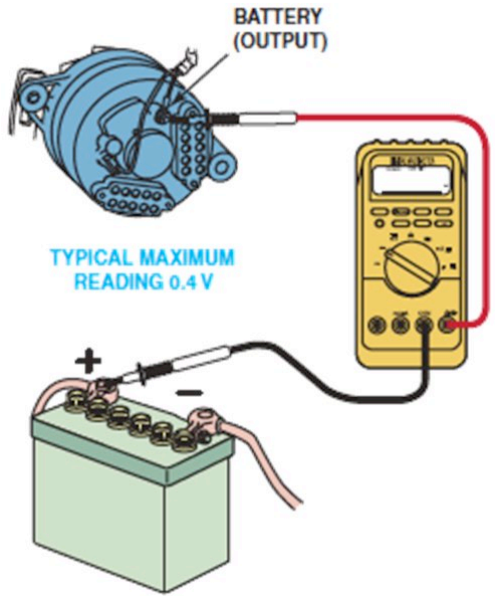
2) Technician A says that the alternator case should be marked if it is to be disassembled. Technician B says that a DMM should be set to "diode check" when checking the rectifier assembly. Which technician is correct? 2) _____
   A) Technician A only
   B) Technician B only
   C) Both technicians A and B
   D) Neither technician A nor B

3) To check the charging voltage, connect a digital multimeter (DMM) to the positive (+) and negative (-) terminals of the battery and select _____. 3) _____
   A) DC volts
   B) AC volts
   C) DC amps
   D) AC amps

4) An alternator could test as producing lower-than-normal output, yet be okay, if the _____. 4) _____
   A) battery is weak or defective
   B) engine speed is not high enough during testing
   C) drive belt is loose or slipping
   D) Any of the above

5) When testing an alternator rotor, if an ohmmeter shows zero ohms with one meter lead attached to the slip rings and the other meter lead touching the rotor shaft, the rotor is _____. 5) _____
   A) Okay (normal)
   B) defective (shorted-to-ground)
   C) defective (shorted-to-copper)
   D) defective (rotor windings are open)

6) What test is being performed in this illustration (engine running)? 6) _____

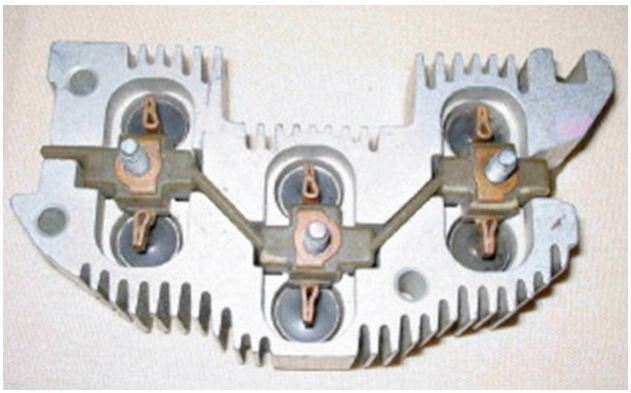


A) Alternator output voltage drop test
B) Charging current test
C) Alternator ground circuit test
D) Battery voltage test

7) To check for ripple voltage from the alternator, connect a digital multimeter (DMM) and select _____. 7) _____

A) DC volts
B) AC volts
C) DC amps
D) AC amps

8) Identify this alternator component. 8) _____



A) Rectifier bridge
B) Diode trio
C) Stator linkage
D) Alternator end housing

9) Technician A says that a loose drive belt could cause overcharging. Technician B says that undersized wiring between the alternator and the battery could cause undercharging. Which technician is correct? 9) _____

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

10) Before disassembling an alternator _____ the case. 10) _____

A) paint
B) mark
C) acid dip
D) wash

Answer Key
Testname: AEEP8_20A

1) A
   Page Ref: 300
2) C
   Page Ref: 300, 302
3) A
   Page Ref: 292
4) D
   Page Ref: 292
5) B
   Page Ref: 300
6) A
   Page Ref: 297
7) B
   Page Ref: 295
8) A
   Page Ref: 302
9) B
   Page Ref: 299
10) B
    Page Ref: 300