Advanced Automotive Electricity and Electronics
Quiz 10A

Name_____

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

1) Which of these tools is MOST likely to be used to determine the starter circuit voltage drop test? 1) _____
A) Meg ohmmeter
B) Voltmeter
C) Ohmmeter
D) Ammeter

2) A vehicle equipped with a V–8 engine does not crank fast enough to start. Technician A says that the battery could be discharged or defective. Technician B says that the negative cable could be loose at the battery. Who is right? 2) _____
A) A only
B) B only
C) Both A and B
D) Neither A nor B

3) A cranking system voltage drop test is being done. Technician A says that the higher the voltage drop, the lower the resistance in the circuit. Technician B says that a high voltage drop in the cranking circuit wiring can cause slow engine cranking. Who is right? 3) _____
A) A only
B) B only
C) Both A and B
D) Neither A nor B

4) Bench testing of a starter should be done _____. 4) _____
A) After reassembling an old starter
B) Before installing a new starter
C) After removing the old starter
D) Both A and B

5) A technician connects one lead of a digital voltmeter to the positive (+) terminal of the battery and the other meter lead to the battery terminal (B) of the starter solenoid and then cranks the engine. During cranking, the voltmeter displays a reading of 878 mV. Technician A says that this reading indicates that the resistance of the positive battery cable is too high. Technician B says that this reading indicates that the starter is defective. Who is right? 5) _____
A) A only
B) B only
C) Both A and B
D) Neither A nor B

6) This voltage reading was obtained while cranking the engine. The indicated reading (0.816 V) is _____ 6) _____

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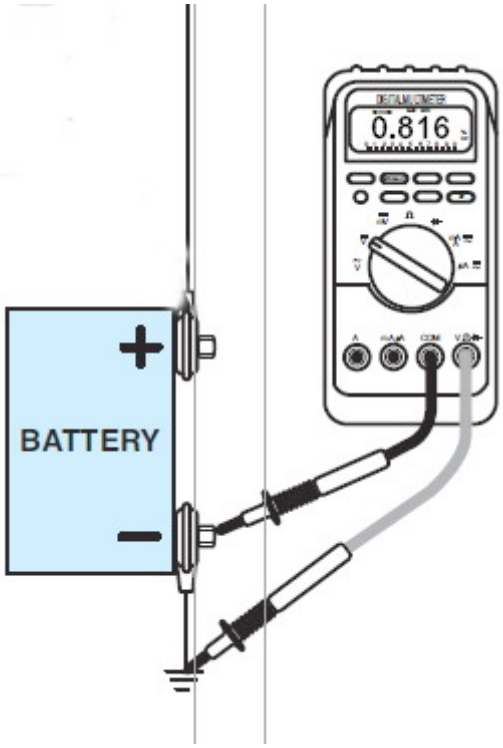

A) Too high
B) Too low
C) An inconclusive measurement
D) Incorrectly done

7) Slow cranking by the starter can be caused by all of these, EXCEPT _____. 7) _____
A) A low or discharged battery
B) Corroded or dirty battery cables
C) Engine mechanical problems
D) Open neutral safety switch

8) With the armature removed from the starter motor, the field coils should be tested for opens and grounds using which of these tools? 8) _____
A) Powered test light
B) Ohmmeter
C) Ammeter
D) Either A or B

9) All of these can cause a starter not to rotate, EXCEPT _____. 9) _____
A) Defective starter drive
B) Shorted field coils
C) Defective armature
D) Seized engine crankshaft

10) Technician A says that the cranking circuit should be tested for proper amperage draw. 10) _____
Technician B says that an open in the control circuit will not prevent starter motor operation.
Who is right?

A) A only
B) B only
C) Both A and B
D) Neither A nor B

Answer Key
Testname: AAEE_10A

1) B
Page Ref: 117
2) C
Page Ref: 123
3) B
Page Ref: 117
4) D
Page Ref: 122
5) A
Page Ref: 117
6) A
Page Ref: 117
7) D
Page Ref: 123
8) D
Page Ref: 121
9) A
Page Ref: 123
10) A
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