

Automotive Engines 10th

Quiz 16A

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

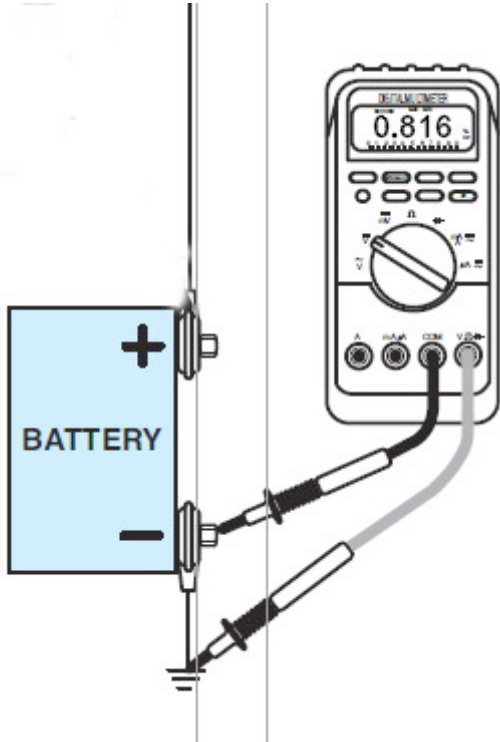
1. A battery high rate discharge (load capacity) test is being performed on a 12 volt battery. Technician A says that a good battery should have a voltage reading of higher than 9.6 volts while under load at the end of the 15-second test. Technician B says that the battery should be discharged (loaded) to twice its CCA rating. Which technician is correct? 1. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

2. 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. 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. Which of these tests is a measure of how well a battery can create current? 3. _____
 - A) Resistance test
 - B) Conductance test
 - C) Reluctance test
 - D) Both A and B

4. If the starter turns slowly when engaged, a possible cause is a(n) _____. 4. _____
 - A) worn or defective starter
 - B) defective solenoid
 - C) disconnected battery cable
 - D) open ignition switch

5. This voltage reading was obtained while cranking the engine. The indicated reading (0.816 V) is 5. _____



- A) too high
- B) too low
- C) an inconclusive measurement
- D) incorrectly done

6. Slow cranking can be caused by all of the following, EXCEPT _____. 6. _____

- A) a low or discharged battery
- B) corroded or dirty battery cables
- C) engine mechanical problems
- D) open neutral safety switch

7. If replacing a battery, what should the technician have available, if needed? 7. _____

- A) Radio code
- B) Voltmeter
- C) Ammeter
- D) A new starter

8. When jump starting _____. 8. _____

- A) the last connection should be the positive post of the dead battery
- B) the last connection should be the engine block of dead vehicle
- C) the alternator must be disconnected on both vehicles
- D) Both A and C

9. What is acceptable battery voltage during engine cranking? 9. _____

- A) Above 9.6 volts
- B) 2.2 to 9.0 volts
- C) 13.5 to 15.0 volts
- D) Above 15.0 volts

10. Testing the electrical system through the lighter plug using a digital meter can test _____.
- A) charging system current
 - B) charging system voltage
 - C) cranking system current
 - D) All of the above
10. _____

Answer Key

Testname: ENGINES 10 16A

1. A
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2. A
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3. B
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4. A
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5. A
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6. D
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7. A
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8. B
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9. A
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