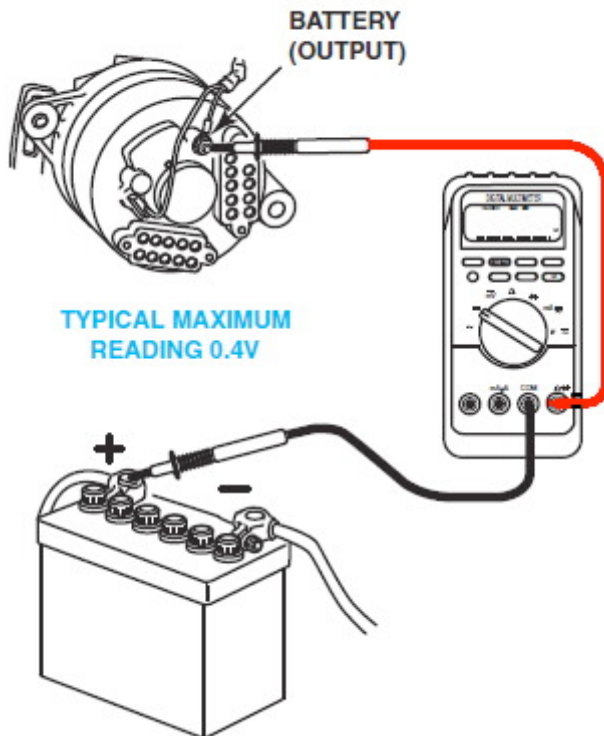


Name _____

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

- 1) Slow cranking can be caused by all of the following, EXCEPT _____. 1) _____
A) A low or discharged battery
B) Corroded or dirty battery cables
C) Engine mechanical problems
D) Open neutral safety switch
- 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) What test is being performed in this illustration? 3) _____



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

- 4) Technician A says that a magnetic field is created in the alternator rotor. Technician B says that alternator output is increased if the speed of the generator is decreased. Which technician is correct? 4) _____
- A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician
- 5) Technician A says that batteries can be tested with an ammeter to determine the state of charge. Technician B says that all batteries should be securely attached to the vehicle with hold-down brackets to prevent vibration damage. Which technician is correct? 5) _____
- A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician
- 6) Technician A says that a battery load test loads the battery to one-half of its CCA rating. Technician B says that a good battery should be able to maintain higher than 9.6 volts for a 25-second test period. Which technician is correct? 6) _____
- A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician
- 7) When jump starting _____. 7) _____
- 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
- 8) Normal battery drain (parasitic drain) for a vehicle with computer and electronic circuits is _____. 8) _____
- A) 20 to 30 milliamperes
 - B) 2 to 3 amperes
 - C) 150 to 300 milliamperes
 - D) None of the above
- 9) During the load testing, battery voltage should not drop below how many volts? 9) _____
- A) 9.6
 - B) 7.5
 - C) 8.6
 - D) 10.5
- 10) The maximum acceptable AC ripple voltage is _____. 10) _____
- A) 0.010 V (10mV)
 - B) 0.050 V (50mV)
 - C) 0.100 V (100 mV)
 - D) 0.400 V (400mV)

Answer Key

Testname: ENGINES9_17B

1) D

Page Ref: 218

2) A

Page Ref: 220

3) A

Page Ref: 223

4) A

Page Ref: 223

5) B

Page Ref: 205-206

6) A

Page Ref: 207

7) B

Page Ref: 208

8) A

Page Ref: 210

9) A

Page Ref: 207

10) D

Page Ref: 222