

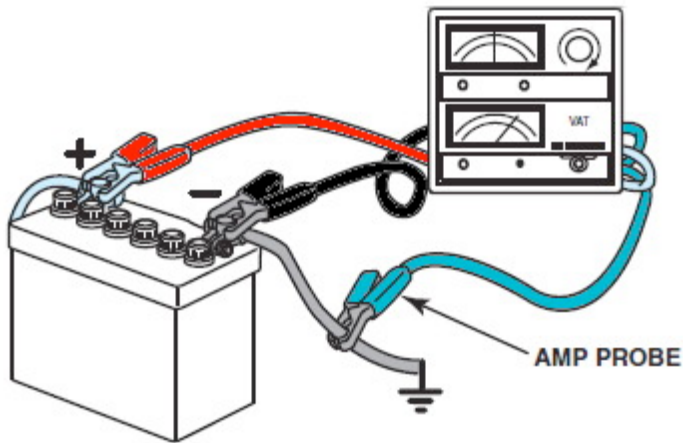
Name \_\_\_\_\_

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

- 1) Technician A says that all battery connections should be tested for corrosion. Technician B says that battery cables should be checked for corrosion and replaced as needed. Which technician is correct? 1) \_\_\_\_\_
- A) Technician A
  - B) Technician B
  - C) Both technicians
  - D) Neither technician
- 2) The maximum acceptable AC ripple voltage is \_\_\_\_\_. 2) \_\_\_\_\_
- A) 0.010 V (10mV)
  - B) 0.050 V (50mV)
  - C) 0.100 V (100 mV)
  - D) 0.400 V (400mV)
- 3) Technician A says that a discharged battery (lower than normal battery voltage) can cause solenoid clicking. Technician B says that a discharged battery or dirty (corroded) battery cables can cause solenoid clicking. Which technician is correct? 3) \_\_\_\_\_
- A) Technician A
  - B) Technician B
  - C) Both technicians
  - D) Neither technician
- 4) Which of these tests is a measure of how well a battery can create current? 4) \_\_\_\_\_
- A) Resistance test
  - B) Conductance test
  - C) Reluctance test
  - D) Both A and B
- 5) 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? 5) \_\_\_\_\_
- A) Technician A
  - B) Technician B
  - C) Both technicians
  - D) Neither technician

6) What test is being performed in this illustration?

6) \_\_\_\_\_



- A) Starter amperage draw test
- B) Battery load test
- C) Ground side voltage drop test
- D) Positive side voltage drop test

7) Normal battery drain (parasitic drain) for a vehicle with computer and electronic circuits is \_\_\_\_\_.

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

- A) 20 to 30 milliamperes
- B) 2 to 3 amperes
- C) 150 to 300 milliamperes
- D) None of the above

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) If the starter turns slowly when engaged, a possible cause is \_\_\_\_\_.

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

- A) A worn or defective starter
- B) A defective solenoid
- C) A disconnected battery cable
- D) A open ignition switch

10) 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?

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

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

## Answer Key

Testname: ENGINES9\_17A

1) C

Page Ref: 205

2) D

Page Ref: 222

3) C

Page Ref: 215

4) B

Page Ref: 207

5) A

Page Ref: 222

6) A

Page Ref: 207

7) A

Page Ref: 210

8) B

Page Ref: 208

9) A

Page Ref: 218

10) A

Page Ref: 223