

Name _____

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

- 1) On a vehicle using an electrical power management system (EPM), how is the current to the battery measured? 1) _____
 - A) With a Hall effect sensor
 - B) With an in-line ammeter
 - C) By using a custom voltmeter
 - D) By use of a duty-cycle sensor

- 2) Which of these is TRUE about an alternator with an overrunning pulley? 2) _____
 - A) Replacement pulley must be the overrunning type
 - B) It can use a conventional replacement pulley
 - C) Both A and B
 - D) Neither A nor B

- 3) The output of an alternator can be increased by increasing the _____ of the alternator. 3) _____
 - A) speed of rotation
 - B) number of conductors in the stator
 - C) current in the rotor
 - D) Any of these would increase the output.

- 4) Technician A says that an alternator overrunning pulley is used to reduce vibration and noise, Technician B says that an overrunning alternator pulley or dampener uses a one-way clutch. Who is right? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) Electronic voltage regulators use a temperature-sensitive resistor in the regulator circuit. This resistor, called a thermistor, provides lower resistance as the temperature _____. 5) _____
 - A) decreases
 - B) increases
 - C) stays the same
 - D) doubles

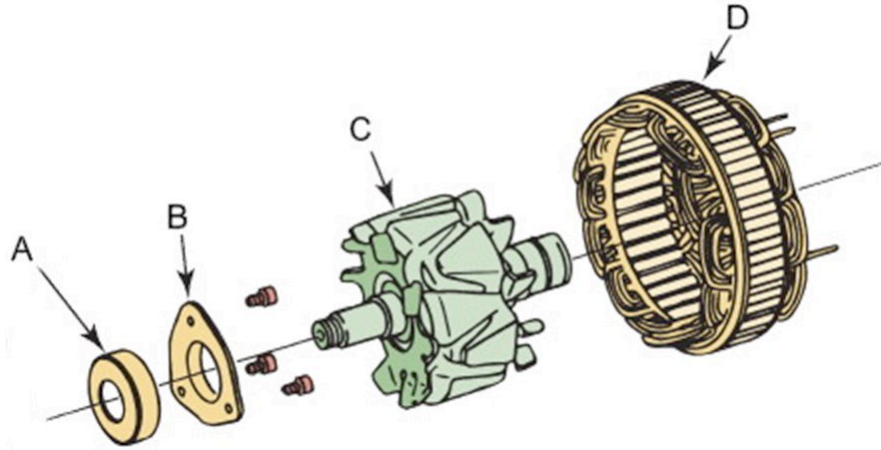
- 6) The voltage regulator controls the current through the _____. 6) _____
 - A) alternator brushes
 - B) rotor
 - C) alternator field
 - D) all of these

7) One horsepower is equal to _____ watts.

- A) 746
- B) 500
- C) 1050
- D) none of these

7) _____

8) Which of these components is the stator?



8) _____

- A) A
- B) B
- C) C
- D) D

9) Technician A says that the diodes regulate the alternator output voltage. Technician B says that the field current can be computer controlled. Who is right?

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

9) _____

10) How is the AC current produced in the alternator changed to DC current?

- A) Mechanical switches
- B) Alternating brushes
- C) Slip ring rotation
- D) By diodes inside the alternator

10) _____