

Name _____

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

- 1) 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. Which technician is correct? 1) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 2) The output diodes in an alternator are mounted to which of these components? 2) _____
A) Stator
B) Rotor
C) Housing
D) Slip rings
- 3) An alternator stator with three windings usually has how many diodes? 3) _____
A) 2
B) 4
C) 6
D) 8
- 4) The GM electrical power management system has 3 modes of operation. 4) _____
A) True
B) False
- 5) What is used to help control the heat created in the alternator? 5) _____
A) External fan
B) Internal fan
C) Coolant cooled
D) Any of the above
- 6) A magnetic field created in the _____ is used to induce a voltage in the _____. 6) _____
A) stator; rear housing
B) diodes; stator
C) rotor; stator
D) drive-end frame; OAD
- 7) Current for the rotor flows from the battery through the brushes to which of these? 7) _____
A) Slip rings
B) Stator
C) Rotor
D) Regulator

- 8) How is the AC voltage produced in the alternator changed to DC voltage? 8) _____
- A) Mechanical switches
 - B) Alternating brushes
 - C) Slip ring rotation
 - D) Diodes inside the alternator
- 9) Technician A says that the diodes regulate the alternator output voltage. Technician B says that the field current can be computer controlled. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) How does the computer interface with the alternator? 10) _____
- A) The computer can actuate the charging system
 - B) The computer can monitor the operation of the alternator
 - C) The computer can control the operation of the alternator
 - D) Any of the above

Answer Key

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1) C

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2) C

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3) C

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4) B

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5) D

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6) C

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7) A

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8) D

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9) B

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10) D

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