

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. Who is right? 1) \_\_\_\_\_  
A) A only  
B) B only  
C) Both A and B  
D) Neither A nor B
- 2) A duty cycle of 90% means the circuit is off most of the time. 2) \_\_\_\_\_  
A) True  
B) False
- 3) Technician A says that a wye-wound stator produces more maximum output than the same alternator equipped with a delta-wound stator. Technician B says that an alternator equipped with a delta-wound stator produces more maximum output than a wye-wound stator. Who is right? 3) \_\_\_\_\_  
A) A only  
B) B only  
C) Both A and B  
D) Neither A nor B
- 4) Which of these is true about an alternator with an overrunning pulley? 4) \_\_\_\_\_  
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
- 5) How much current flows through the alternator brushes? 5) \_\_\_\_\_  
A) All of the alternator output flows through the brushes  
B) 2-5  
C) 25 to 35 A, depending on the vehicle  
D) 10 to 15 A
- 6) 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 alternator is decreased. Who is right?+ 6) \_\_\_\_\_  
A) A only  
B) B only  
C) Both A and B  
D) Neither A nor B
- 7) The GM electrical power management system has 3 modes of operation. 7) \_\_\_\_\_  
A) True  
B) False

- 8) On a vehicle using an electrical power management system (EPM), how is the current to the battery measured? 8) \_\_\_\_\_
- A) With a Hall effect sensor
  - B) With a series ammeter
  - C) By using a custom voltmeter
  - D) By use of a duty-cycle sensor
- 9) Which of these facts is correct about a delta-wound stator? 9) \_\_\_\_\_
- A) No neutral junction
  - B) No ground connection
  - C) The windings always form a series circuit
  - D) The circuit diagram looks like a parallelogram
- 10) Technician A says that two diodes are required for each stator winding lead. Technician B says that diodes change alternating current into direct current. 10) \_\_\_\_\_
- A) A only
  - B) B only
  - C) Both A and B
  - D) Neither A nor B

## Answer Key

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- 1) C  
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- 2) B  
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- 3) B  
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- 4) A  
Page Ref: 131
- 5) B  
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- 6) A  
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- 7) B  
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- 8) A  
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- 9) A  
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- 10) C  
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