Automotive Technology 6th Edition
Quiz 54A

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

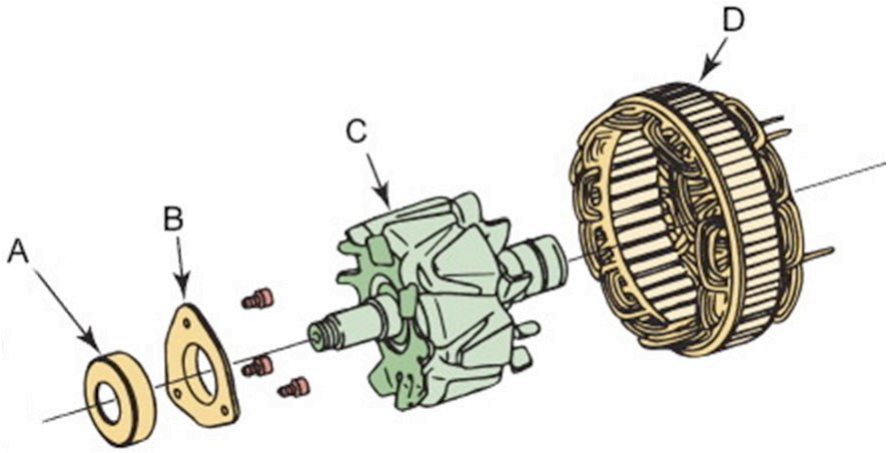
5) Electronic voltage regulators use a temperature-sensitive resistor in the regulator circuit. This resistor, called a thermistor, provides lower resistance as the temperature _____. 5) _____
A) decreases
B) increases
C) stays the same
D) doubles

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. 7) _____

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

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? 9) _____

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

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

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

Answer Key
Testname: AT6_54A

1) A
Page Ref: 630
2) A
Page Ref: 624
3) D
Page Ref: 627-628
4) C
Page Ref: 622-623
5) B
Page Ref: 629
6) D
Page Ref: 628
7) A
Page Ref: 623
8) D
Page Ref: 625
9) B
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10) D
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