

Name _____

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

- 1) Technician A says that the voltage drop between the output terminal of the alternator and the positive terminal of the battery should be less than 0.4 volt. Technician B says that the voltage drop between the case of the alternator and the negative terminal of the battery should be less than 0.2 volt. Which technician is correct? 1) _____
 - A) A only
 - B) B only
 - C) Both A and B
 - D) Neither A nor B

- 2) The maximum allowable alternating current (AC) in amperes that is being sent to the battery from the alternator is _____. 2) _____
 - A) 0.04 A
 - B) 1 to 3 A
 - C) 3 to 4 A
 - D) 10% of the rated output of the AC Generator

- 3) To check for ripple voltage from the alternator, connect a digital multimeter (DMM) and select _____. 3) _____
 - A) DC volts
 - B) AC volts
 - C) DC amps
 - D) AC amps

- 4) Why should the lights be turned on when checking for ripple voltage or AC current from the alternator? 4) _____
 - A) To warm the battery
 - B) To check that the battery is fully charged
 - C) To create an electrical load for the alternator
 - D) To test the battery before conducting other tests

- 5) Technician A says that by full fielding the alternator, you are bypassing the voltage regulator. Technician B says that full fielding can possibly damage electronic circuits, so it is no longer a recommended test. Who is right? 5) _____
 - A) A only
 - B) B only
 - C) Both A and B
 - D) Neither A nor B

- 6) When testing an alternator rotor, if an ohmmeter shows zero ohms with one meter lead attached to the slip rings and the other meter lead touching the rotor shaft, the rotor is _____. 6) _____
 - A) OK (normal)
 - B) Defective (shorted-to-ground)
 - C) Defective (shorted-to-voltage)
 - D) OK (rotor windings are open)

- 7) An alternator has zero output. Technician A says that the alternator field circuit may have an open circuit. Technician B says that the fusible link may be open in the alternator to battery wire. Who is right? 7) _____
- A) A only
 - B) B only
 - C) Both A and B
 - D) Neither A nor B
- 8) An acceptable charging circuit voltage on a 12 volt system is _____. 8) _____
- A) 13.5 to 15 volts
 - B) 12.6 to 15.6 volts
 - C) 12 to 14 volts
 - D) 14.9 to 16.1 volts
- 9) Technician A says that charging system testing requires that the battery be at least 75% charged. Technician B says that a digital multimeter can not be used to test charging system voltage. Who is right? 9) _____
- A) A only
 - B) B only
 - C) Both A and B
 - D) Neither A nor B
- 10) 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. Who is right? 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) D

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3) B

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4) C

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5) C

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6) B

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7) C

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8) A

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9) A

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10) A

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