B) Replace the fuel injectors

C) Drain the fuel tank and connect the battery

| Name | | | |
|------|--|--|--|

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

| 1) Which of these is an NPN transistor? | 1) | |
|---|----|--|
| EMITTER COLLECTOR EMITTER COLLECTOR BASE BASE BASE | | |
| A) A B) B C) Both A and B D) Neither A nor B | | |
| 2) A semiconductor is a material A) With fewer than four electrons in the outer orbit of its atoms B) With more than four electrons in the outer orbit of its atoms C) With exactly four electrons in the outer orbit of its atoms D) Determined by other factors besides the number of electrons | 2) | |
| 3) "Breakdown voltage" is the voltage at which a Zener diode will do which of these? A) Allow reverse current to flow B) Stop the flow of reverse current C) Sustain damage as a result of current overload D) Stop the flow of either forward or reverse current | 3) | |
| 4) Technician A says that circuits using semiconductors may also be known as solid state circuits. Technician B says that the process of introducing a precise amount of impurity to a pure semiconductor material is known as doping. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician | 4) | |
| 5) If a vehicle computer fails, what should the technician do before replacing the computer? A) Check the resistance of all computer-controlled relays and solenoids | 5) | |

D) Ground the frame of the vehicle to a good earth ground to prevent ESD

| 6) A diode installed across a coil with the cathode toward the battery positive is called a(an) | | |
|---|-----|--|
| A) Clamping diode | | |
| B) Forward-bias diode | | |
| C) SCR | | |
| D) Transistor | | |
| _ / | | |
| 7) Faults or failures in electronic components could be caused by all of the following EXCEPT | 7) | |
| A) Loose connector terminals | | |
| B) A loose alternator belt | | |
| C) Jumper cables reversed when jump-starting | | |
| D) A voltage spike | | |
| | | |
| 8) Which device is used in alternators to change AC to DC? | 8) | |
| A) Diode | · - | |
| B) Transistor | | |
| C) Capacitor | | |
| D) None of these | | |
| 9) To avoid damage from an electrostatic discharge, the technician should before handling sensitive | 9) | |
| electronic components | · - | |
| A) Wear dark clothing | | |
| B) Be sure to wear insulated shoes | | |
| C) Touch the housing of the component before removing it from the protective cover | | |
| D) Touch a metal surface on the vehicle | | |
| 10) What is the purpose and function of an inverter? | 10) | |
| A) To change the polarity of DC voltages | -, | |
| B) To change low DC voltage to high DC voltage | | |
| C) To change DC voltage to AC voltage | | |
| D) To change AC voltage to DC voltage | | |
| | | |

Answer Key

Testname: AEE6_15B

- 1) A
 - Page Ref: 179
- 2) C
- Page Ref: 171
- 3) A
 - Page Ref: 174
- 4) C
 - Page Ref: 171, 173
- 5) A
 - Page Ref: 184
- 6) A
 - Page Ref: 174
- 7) B
 - Page Ref: 183-184
- 8) A
 - Page Ref: 178,179
- 9) D
 - Page Ref: 187
- 10) C
 - Page Ref: 186