

**Automotive Technology 7<sup>th</sup> Edition**  
**Chapter 45: Electronic Fundamentals**  
**Matching Quiz**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Matching: Choose the item in column 2 that best matches each item in column 1.**

- |                               |  |           |
|-------------------------------|--|-----------|
| 1. Semiconductor              | A. A device that can switch on and off, amplify, or throttle an electrical signal.                                   | 1. _____  |
| 2. Diode                      | B. The process of adding impurities to a semiconductor material to alter its electrical properties.                  | 2. _____  |
| 3. Anode                      | C. A semiconductor device that allows current to flow in one direction only.   | 3. _____  |
| 4. Cathode                    | D. Used for voltage regulation or high-voltage spike protection, if connected in reverse bias.                       | 4. _____  |
| 5. Doping                     | E. The positive terminal of a diode.   | 5. _____  |
| 6. Transistor                 | F. A material that is neither a good conductor nor a good insulator.   | 6. _____  |
| 7. Light-Emitting Diode (LED) | G. A semiconductor device that emits light when current flows through it.  | 7. _____  |
| 8. Zener Diode                | H. A device that changes DC voltage to AC voltage.   | 8. _____  |
| 9. Integrated Circuit (IC)    | I. The negative terminal of a diode.   | 9. _____  |
| 10. Inverter                  | J. A miniature electronic circuit fabricated on a semiconductor material, containing many interconnected components. | 10. _____ |

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**Answer Key**

**Answer Key:**

1. F
2. C
3. E
4. I
5. B
6. A
7. G
8. D
9. J
10. H