

**Automotive Technology 7<sup>th</sup> Edition**  
**Chapter 43: Capacitance and Capacitors**  
**Matching Quiz**

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

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

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

- |                                       |  |           |
|---------------------------------------|--|-----------|
| 1. Capacitance                        | A. A unit of capacitance, often expressed in microfarads or picofarads.                          | 1. _____  |
| 2. Capacitor                          | B. Two conductors separated by an insulator.   | 2. _____  |
| 3. Dielectric                         | C. The ability of an object or surface to store an electrical charge.                            | 3. _____  |
| 4. Farads                             | D. A common use for capacitors to reduce unwanted electrical noise.                              | 4. _____  |
| 5. Leyden Jar                         | E. A capacitor connected in this manner will increase the total capacitance.                     | 5. _____  |
| 6. Spike Protection                   | F. The insulating material between the two conductors in a capacitor.                            | 6. _____  |
| 7. Noise Filter                       | G. Blocks DC current but allows AC current to pass.  | 7. _____  |
| 8. Capacitors in Parallel             | H. A capacitor connected in this manner will decrease the total capacitance.                     | 8. _____  |
| 9. Capacitors in Series               | I. Used in computer memory, radios, and speakers.  | 9. _____  |
| 10. Capacitor Function (Current Flow) | J. An early device used to store electrical charge, consisting of a glass jar with foil linings. | 10. _____ |

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**Answer Key**

**Answer Key:**

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