

Automotive Electrical and Engine Performance 9th Edition
Chapter 8 – Wiring Schematics and Circuit Testing
Multiple Choice Questions Quiz B

1. What symbol in a wiring schematic typically represents a spliced connection between two wires?

- a) A small black dot at the intersection
- b) A looped line crossing over another wire
- c) A square symbol
- d) An open circle at the intersection

2. Technician A says that a SPDT switch has two positions, on and off. Technician B states that a SPDT switch has three terminals, one input and two outputs. Who is correct?

- a) Technician A only
- b) Technician B only
- c) Both Technicians A and B
- d) Neither Technician A nor B

3. The purpose of a DPST switch in an electrical circuit is to:

- a) Control two circuits with a single on/off function
- b) Allow power to flow only in one direction
- c) Provide a momentary connection
- d) Change polarity across a single load

4. Which color abbreviation in wiring diagrams represents a yellow wire with a white stripe?

- a) Y/WHT/Y
- b) Y/W
- c) WH/YL
- d) Y/WHT

5. What is typically indicated by a “C” followed by three numbers in a wiring schematic?

- a) Connector location
- b) Circuit component value
- c) Cable thickness
- d) Current rating

6. Technician A states that a wiring schematic showing a normally open (N.O.) momentary switch means it remains open until activated. Technician B claims a normally closed (N.C.) switch remains closed until activated. Who is correct?

- a) Technician A only
- b) Technician B only
- c) Both Technicians A and B
- d) Neither Technician A nor B

7. In a typical automotive relay, terminals 85 and 86 are used to connect to:

- a) High-current load components
- b) The control circuit coil
- c) Power output only
- d) The ground only

8. A Gauss gauge is commonly used to:

- a) Measure the voltage in high-current circuits
- b) Detect magnetic fields to locate short circuits
- c) Test the continuity of open circuits
- d) Measure the resistance across a relay coil

9. When a diode is placed across a relay coil, its purpose is to:

- a) Decrease the current to the relay contacts
- b) Allow current to flow in both directions
- c) Eliminate voltage spikes when the coil is de-energized
- d) Enhance magnetic field strength

10. What tool can be used to locate an open circuit by generating a tone along the circuit's length?

- a) Ohmmeter
- b) Gauss gauge
- c) Tone generator
- d) Ammeter

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Answer Key Quiz B

Correct Answers:

1. a
2. b
3. a
4. d
5. a
6. c
7. b
8. b
9. c
10. c