

Automotive Technology 7<sup>th</sup> Edition  
Chapter 66: Air-Conditioning System Diagnosis and Service  
Short Answer Quiz

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

1. Describe the significance of selecting "HVAC Control Module" under "Body" on most scan tools.

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2. Explain the consequences of flexing aluminum lines in the context of air-conditioning systems.

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3. Describe the temperature characteristics of the suction line to the compressor and the discharge line when an A/C system is operating properly.

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4. Why is using soapy water not a very accurate method for detecting small refrigerant leaks?

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5. If the outside temperature is 90°F (32°C) and the humidity is high, what should the high side gauge reading be when the A/C is operating?

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6. What is the primary cause of a musty, moldy smell in the air-conditioning system?

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7. Describe the expected temperature range of an A/C system that is functioning normally in relation to the outside air temperature.

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8. If the A/C system's pressures are within the normal range and the sight glass is clear, but the vent temperature is high, what potential issues should be investigated?

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9. Explain the significance of checking for technical service bulletins (TSBs) after checking for stored DTCs when servicing a vehicle.

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10. During the removal of the HVAC case, what precautions are taken with the steering column and why?

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