

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.
2. Explain the consequences of flexing aluminum lines in the context of air-conditioning systems.
3. Describe the temperature characteristics of the suction line to the compressor and the discharge line when an A/C system is operating properly.
4. Why is using soapy water not a very accurate method for detecting small refrigerant leaks?
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?

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

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?

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

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