

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) If the performance test shows less than 45° F at the center vent, the AC is working normally. 1) \_\_\_\_\_  
A) True  
B) False
  
- 2) A customer complains that the heater works sometimes, but sometimes only cold air comes out while driving. Technician A says that the water pump is defective. Technician B says that the cooling system could be low on coolant. Which technician is correct? 2) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
  
- 3) The first step in the diagnostic procedure when attempting to solve an HVAC customer problem is \_\_\_\_\_. 3) \_\_\_\_\_  
A) visual inspection  
B) check for diagnostic trouble codes  
C) check for technical service bulletins  
D) verify customer concern
  
- 4) What should the pressures of the low-side and high-side A/C system read on a gauge set with the engine off? 4) \_\_\_\_\_  
A) The high side should be about 20% lower than the high-side pressure.  
B) The same  
C) The high side should be about 200 PSI with the engine off.  
D) The low side should be at or near 0 PSI with the engine off.
  
- 5) An AC system has had about 0.5 lbs of R-22 refrigerant added. What would this cause? 5) \_\_\_\_\_  
A) No problems, normal AC cooling  
B) Increased cooling  
C) Low high side pressures  
D) Very high high side pressures
  
- 6) Technician A says that evaporator leaks can be detected by installing dye into the system and looking for yellowish-green dye stains. Technician B says that a leak at the evaporator can be detected by removing the blower motor resistor pack and inserting an electronic leak detector probe into the air stream. Which technician is correct? 6) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

- 7) Technician A says AC system lines and hoses that are cold have lower refrigerant pressure than warmer lines and hoses. Technician B says frost on a system component usually indicates a refrigerant leak in that area. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 8) If both the low side and the high side show low readings, what might be the problem? 8) \_\_\_\_\_
- A) Low refrigerant charge
  - B) Condenser malfunction
  - C) Cooling fan malfunction
  - D) TXV stuck open
- 9) The ambient temperature is 70° F and the humidity is low. What should the high side gauge pressure be (AC system on)? 9) \_\_\_\_\_
- A) 140 to 190 psi
  - B) 10 to 50 psi
  - C) 300 to 350 psi
  - D) Not enough information to tell
- 10) What must the technician do before checking an air conditioning system for refrigerant leaks using a black light? 10) \_\_\_\_\_
- A) Evacuate the system
  - B) Install dye in the system
  - C) Overcharge the system by 10 oz.
  - D) Turn the system off and allow the pressure to equalize

## Answer Key

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1) A

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2) B

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3) D

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4) B

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5) D

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6) C

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7) A

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8) A

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9) A

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10) B

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