

Name _____

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

- 1) What would normal low and high gauge reading be on a 90° day? 1) _____
 - A) 30 and 400 PSI
 - B) 30 and 200 PSI
 - C) 10 and 300 PSI
 - D) 50 and 175 PSI

- 2) Most A/C performance tests include _____. 2) _____
 - A) Start the engine, set the parking brake, and raise the idle to 2,000 RPM
 - B) Measure ambient temperature 3 inches (80 mm) in front of the condenser and measure the humidity
 - C) Open the doors and set the blower speed to high which applies the maximum load on the system
 - D) All of the above

- 3) Clear water is seen dripping from beneath the vehicle on the passenger side. This means _____. 3) _____
 - A) Normal operation
 - B) Possible clogged evaporator
 - C) Possible restricted condenser
 - D) Receiver-drier at the end of its normal life

- 4) Several different methods of leak detection are available including _____. 4) _____
 - A) Visual inspection looking for refrigerant oil stains
 - B) Dye
 - C) Using a leak detector
 - D) Any of the above

- 5) Technician A says that oily residue on a fitting or hose can indicate a refrigerant leak. Technician B says that this residue is normal around most A/C fittings. Which technician is correct? 5) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 6) Technician A says that a quick check of A/C system operation is to feel the temperature of the suction and discharge lines. Technician B says that the suction line should be cold and the discharge line hot after 5 minutes of system operation. Which technician is correct? 6) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 7) Both high-side pressures and low-side pressures are low with the engine running and the selector set to the air conditioning position. Technician A says that the system is undercharged. Technician B says the cooling fan could be inoperative. Which technician is correct? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) The low-side pressure is low and the high-side pressure is higher than normal. What is the most likely cause? 8) _____
- A) Low refrigerant charge level
 - B) System is overcharged. Expansion valve is stuck open
 - C) Restriction on the low-side line
 - D) Restriction on the high-side line
- 9) When using a scan tool to diagnose an AC system, where are any AC related trouble codes usually found? 9) _____
- A) In the driver information center (instrument cluster)
 - B) Powertrain control module (PCM)
 - C) Body or chassis systems
 - D) Read out in the navigation screen
- 10) A faulty A/C system has a high low-side pressure and a high high-side pressure. Technician A says that the system is probably starved. Technician B says that the system has a bad thermostatic switch. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

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1) B

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2) D

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3) A

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4) D

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5) A

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6) C

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7) A

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8) D

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9) C

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10) D

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