

Name \_\_\_\_\_

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

- 1) Two technicians are discussing replacing heater hoses. Technician A says that the replacement hoses should be the same length as the original hoses. Technician B says that the replacement hoses should be cut as short as possible to allow more coolant to flow through the heater core faster. Which technician is correct? 1) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 2) During a retrofit, the replacement R-134a charge should be \_\_\_\_\_ than the specified R-12 charge. 2) \_\_\_\_\_
  - A) 10% minus 4 oz. less
  - B) 10-20% more
  - C) 20-30% less
  - D) 20-30% more
  
- 3) If a condenser has a leak it can be easily repaired with epoxy. 3) \_\_\_\_\_
  - A) True
  - B) False
  
- 4) O-rings are usually made from \_\_\_\_\_. 4) \_\_\_\_\_
  - A) HSN
  - B) natural rubber
  - C) neoprene
  - D) either A or C
  
- 5) A defective thermostat can cause the engine to operate \_\_\_\_\_. 5) \_\_\_\_\_
  - A) too hot
  - B) too cold
  - C) either A or B
  - D) neither A nor B
  
- 6) Which reading represents the lowest vacuum reading? 6) \_\_\_\_\_
  - A) 27 in. Hg
  - B) 28 in. Hg
  - C) 29 in. Hg
  - D) 500 microns
  
- 7) Which part **MUST** be used when refitting a vehicle from R-12 to R-134a refrigerant? 7) \_\_\_\_\_
  - A) A new condenser
  - B) A new service fitting and a retrofit label
  - C) A high pressure cutoff switch
  - D) Both B and C

- 8) What service procedure should be performed before recovering refrigerant from an A/C system? 8) \_\_\_\_\_
- A) Flush the radiator
  - B) The refrigerant should be identified
  - C) Recover all the refrigerant oil
  - D) Replace the drier
- 9) Technician A says to charge the system with refrigerant until the condenser temperature is equal to the ambient temperature plus 100 deg. F. Technician B says to charge the system with a manufacturer specified weight of refrigerant. Which technician is correct? 9) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 10) An evaporator is being replaced on a vehicle. It is recommended that the \_\_\_\_\_ also be replaced at the same time. 10) \_\_\_\_\_
- A) blower motor
  - B) heater core
  - C) radiator
  - D) blower resistor

## Answer Key

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1) A

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2) A

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3) B

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4) D

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5) C

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6) D

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7) D

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8) B

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9) B

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10) B

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