

Name \_\_\_\_\_

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

- 1) What color is DEX-COOL coolant? 1) \_\_\_\_\_  
A) Orange  
B) Red  
C) Green  
D) Yellow
  
- 2) A/C compressor oil is the same for both hybrid and non-hybrid A/C systems. 2) \_\_\_\_\_  
A) True  
B) False
  
- 3) A coolant heat storage tank can keep coolant warm for a maximum of \_\_\_\_\_ days. 3) \_\_\_\_\_  
A) One-half  
B) Two  
C) Three  
D) Four
  
- 4) Technician A says that the amount of heat the conventional passenger climate control system can provide depends on the temperature of the coolant flowing through the heater core. Technician B says that some HEV system designs allow heat from the electrical systems to be circulated to the passenger compartment when needed. Which technician is correct? 4) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
  
- 5) Technician A says that when a liquid changes to a vapor, heat is absorbed. Technician B says that when a vapor changes to a liquid, heat is released. Which technician is correct? 5) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
  
- 6) All of the following statements about hybrid electric vehicle A/C compressors are true, EXCEPT \_\_\_\_\_ 6) \_\_\_\_\_  
A) Most are reciprocating piston designs  
B) Some use a belt drive along with an electric motor  
C) Some use only an electric motor without a belt drive  
D) Nonconductive refrigeration oil must be used with A/C compressors utilizing an electric drive motor

- 7) When the ICE shuts off and the engine coolant temperature is reduced, what component compensates for the drop in pressure inside the closed coolant system? 7) \_\_\_\_\_
- A) Vacuum valve in the radiator cap
  - B) Pressure relief valve in the radiator cap
  - C) Air passages
  - D) None of these
- 8) Scan data indicates that the starter-generator control module (SGCM) on a GM hybrid pickup has overheated. The LEAST likely cause would be \_\_\_\_\_. 8) \_\_\_\_\_
- A) Low coolant level
  - B) Stuck thermostat
  - C) Inoperative fan
  - D) Faulty electric pump
- 9) During ICE operation when the coolant expands and pressure in the closed coolant system increases, what component allows excess pressure to vent to prevent system damage? 9) \_\_\_\_\_
- A) Pressure relief valve in the radiator cap
  - B) Vacuum valve in the radiator cap
  - C) External electronic pressure regulators
  - D) None of these
- 10) A device used to turn refrigerant flow on and off in an air conditioning system with multiple evaporators is called a \_\_\_\_\_. 10) \_\_\_\_\_
- A) Refrigeration switch
  - B) Flow valve
  - C) Zone control
  - D) Zone valve

## Answer Key

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- 1) A  
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- 2) B  
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- 3) C  
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- 4) C  
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- 5) C  
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- 6) A  
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- 7) A  
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- 8) B  
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- 9) A  
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- 10) D  
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