

Name \_\_\_\_\_

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

- 1) What can be done to prevent air from getting trapped in the cooling system when the coolant is replaced? 1) \_\_\_\_\_
  - A) Pour the coolant into the radiator slowly.
  - B) Use a coolant exchange machine that draws a vacuum on the system.
  - C) Open the air bleeder valves while adding coolant.
  - D) Either B or C
  
- 2) What diagnostic trouble code (DTC) could be set if the thermostat is defective? 2) \_\_\_\_\_
  - A) P0300
  - B) P0171
  - C) P0440
  - D) P0128
  
- 3) Pressurizing the automotive cooling system results in \_\_\_\_\_. 3) \_\_\_\_\_
  - A) reduced engine temperature
  - B) reduced coolant boiling point
  - C) decreased coolant warm up rate
  - D) increased coolant boiling point
  
- 4) Technician A says that a dirty or blocked radiator can cause the engine to overheat. Technician B says that overheating can be caused by a defective water pump. Who is right? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 5) The normal operating temperature (coolant temperature) of an engine equipped with a 195°F thermostat is \_\_\_\_\_. 5) \_\_\_\_\_
  - A) 175°F to 195°F
  - B) 185°F to 205°F
  - C) 195°F to 215°F
  - D) 175°F to 215°F
  
- 6) The upper radiator hose collapses when the engine cools. What is the most likely cause? 6) \_\_\_\_\_
  - A) Defective upper radiator hose
  - B) Missing spring from the upper radiator hose, which is used to keep it from collapsing
  - C) Defective thermostat
  - D) Defective radiator pressure cap

- 7) Technician A says that cooling fans are designed to draw air through the radiator to aid in the heat transfer process. Technician B says that drawing the heat from the coolant transfers this heat to the outside air through the radiator. Who is right? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 8) Water pumps \_\_\_\_\_. 8) \_\_\_\_\_
- A) only work at idle and low speeds and are disengaged at higher speeds
  - B) use engine oil as a lubricant and coolant
  - C) are driven by the engine crankshaft or camshaft
  - D) disengage during freezing weather to prevent radiator failure
- 9) Technician A says that the cooling system should be tested for leaks using a pressure-operated pressure tester. Technician B says that the freezing and boiling point of the coolant can be tested using a thermometer. Who is right? 9) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 10) What is the purpose of the lower air dam in the front of vehicles? 10) \_\_\_\_\_
- A) To help direct the air through the radiator
  - B) To direct the air to the automatic transmission
  - C) To improve the looks of the vehicle
  - D) Both B and C

## Answer Key

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1) D

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2) D

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3) D

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4) C

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5) C

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6) D

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7) C

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8) C

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9) D

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10) A

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