

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