

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) Technician A says that the purpose and function of the cooling system is to maintain proper engine operating temperature. Technician B says that the water pump controls engine coolant temperature by opening at its rated opening temperature to allow coolant to flow through the radiator. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) The normal operating temperature (coolant temperature) of an engine equipped with a 195°F thermostat is _____. 3) _____
 - A) 175°F to 195°F
 - B) 185°F to 205°F
 - C) 195°F to 215°F
 - D) 175°F to 215°F

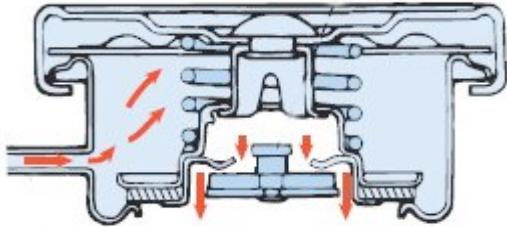
- 4) Technician A says that cooling fans are designed to draw air through the radiator to aid in the heat transfer process. Technician B says that drawing the heat from the coolant transfers this heat to the outside air through the radiator. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) What type of pump is a typical water pump? 5) _____
 - A) Gear
 - B) Centrifugal
 - C) Rotor
 - D) Vane

- 6) What helps prevent water pump cavitation? 6) _____
 - A) Using the specified brand of heater hose
 - B) Using the specified radiator cap
 - C) Using the correct water pump
 - D) Use a higher output water pump

- 7) The water pump uses which of these reactionary forces actions to circulate the coolant? 7) _____
- A) Magnetic force
 - B) Gravitational force
 - C) Centrifugal force
 - D) Centripetal force

- 8) In this drawing of a radiator cap, what is occurring within the cooling system? 8) _____



- A) The system is cooling down
 - B) The system is overheating
 - C) Coolant is returning to the radiator
 - D) Both A and C
- 9) The use of a coolant exchange machine is helpful in preventing _____ from entering the cooling system. 9) _____
- A) Air
 - B) Oil
 - C) Excessive vibrations
 - D) Hose residue
- 10) If a cooling system operates at too cool of a temperature, the engine will _____. 10) _____
- A) Produce more torque
 - B) Have more efficiency
 - C) Pre-ignite or detonate
 - D) Produce higher emissions

Answer Key

Testname: AHAC8_8B

1) D

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2) A

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3) C

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4) C

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5) B

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6) B

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7) C

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8) D

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9) A

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10) D

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