

Name \_\_\_\_\_

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

1) 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? 1) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

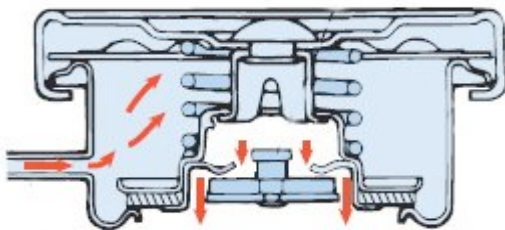
2) The upper radiator hose collapses when the engine cools. What is the most likely cause? 2) \_\_\_\_\_

- A) A defective upper radiator hose
- B) The spring is missing from the upper radiator hose which is used to keep it from collapsing
- C) A defective thermostat
- D) A defective pressure cap

3) Pressurizing the automotive cooling system results in \_\_\_\_\_. 3) \_\_\_\_\_

- A) Reduced engine temperature
- B) Reduced coolant boiling point
- C) Increased coolant warm up rate
- D) Increased coolant boiling point

4) In this drawing of a radiator cap, what is occurring within the cooling system? 4) \_\_\_\_\_



- A) The system is cooling down
- B) The system is overheating
- C) Coolant is returning to the radiator
- D) Both A and C

5) An automotive engine that running at too high of a temperature will have which of these? 5) \_\_\_\_\_

- A) Excessive oil consumption
- B) Poor cooling system circulation
- C) High oxides of carbon
- D) High thermal inefficiency

- 6) Electric cooling fans are typically commanded on and off by the \_\_\_\_\_. 6) \_\_\_\_\_  
A) Powertrain control module (PCM)  
B) Thermostat  
C) Radiator pressure sensor (RPS)  
D) Cooling system delta sensor
- 7) When checking a heater for a no-heat concern, both hoses are found to be too hot to hold. What 7) \_\_\_\_\_  
could be the cause of no heat in the vehicle?  
A) Bad thermostat  
B) Air blend door fault  
C) Worn water pump belt  
D) Loose hose clamps
- 8) Technician A says that the cooling system should be tested for leaks using an air-operated 8) \_\_\_\_\_  
pressure pump. Technician B says the freezing and boiling point of the coolant can be tested  
using a thermometer. Which technician is correct?  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 9) What is commonly wrong when the heat from a heater "comes and goes"? 9) \_\_\_\_\_  
A) Cooling system is low on coolant  
B) A coolant restriction  
C) A worn water pump drive belt  
D) Incorrect heater hoses
- 10) What type of pump is a typical water pump? 10) \_\_\_\_\_  
A) Gear  
B) Centrifugal  
C) Rotor  
D) Vane

## Answer Key

Testname: AHAC8\_8A

1) A

Page Ref: 100

2) D

Page Ref: 107

3) D

Page Ref: 105

4) D

Page Ref: 106

5) A

Page Ref: 99

6) A

Page Ref: 109

7) B

Page Ref: 111

8) D

Page Ref: 112

9) A

Page Ref: 111

10) B

Page Ref: 107