Automotive Heating and Air Conditioning, 9th Edition

Quiz 9B

NAME

1. When checking a heater for a no-heat concern, both hoses are found to be too hot to hold. What	1.	
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		
2. What is commonly wrong when the heat from a heater "comes and goes"?	2.	
A) Cooling system is low on coolant	-	
B) A coolant restriction		
C) A worn water pump drive belt		
D) Incorrect heater hoses		
3. Water pumps	3.	
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		
D) discugage during neezing weather to prevent hadutor failure		
4. If a cooling system operates at too cool of a temperature, the engine will	4.	
A) produce more torque		
B) have more efficiency		
C) pre-ignite or detonate		
D) produce higher emissions		
5. Heat transfer is improved from the coolant to the air when the	5.	
A) temperature difference is great		
B) temperature difference is small		
C) coolant is 95% antifreeze		
D) Both A and C		
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		
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7. A customer complains that the heater works sometimes, but sometimes only cold air comes out	7.	
while driving. Technician A says that the water pump is defective. Technician B says that the		
cooling system could be low on coolant. Which technician is correct?		
A) Technician A only B) Technician B only		
K) Lochnician K only		

- B) Technician B onlyC) Both technicians A and B
- D) Neither technician A nor B

8. The normal operating temperature (coolant temperature) of an engine equipped with a 195°F	8
thermostat is	
A) 175°F to 195°F	
B) 185°F to 205°F	
C) 195°F to 215°F	
D) 175°F to 215°F	
9. Technician A says that cooling fans are designed to draw air through the radiator to aid in the	9
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?	
A) Technician A only	
B) Technician B only	
C) Both technicians A and B	
D) Neither technician A nor B	
10. The use of a coolant exchange machine is helpful in preventing from entering the	10.
cooling system.	
A) air	
B) oil	

- C) excessive vibrations
- D) hose residue

Answer Key Testname: AHAC9_9B

- 1. B
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- 2. A Page Ref: 122
- 3. C Page Ref: 118
- 4. D
 - Page Ref: 110
- 5. A
 - Page Ref: 113
- 6. B
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- 7. B
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- 8. C
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- 9. C
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- 10. A
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