

Automotive Heating and Air Conditioning, 9th Edition

Quiz 10A

NAME _____

1. A customer complains that the heated steering wheel is not working. Which of these could be the cause? 1. _____
 - A) Loose horn buttons
 - B) Vehicle inside temperature above 32°C
 - C) A 0.150 volt drop on the ground wire
 - D) None of these

2. After the water pump was replaced and the cooling system refilled with coolant, the heater stopped providing warm air. Which of these is the MOST LIKELY cause? 2. _____
 - A) The wrong concentration of antifreeze was installed
 - B) An air pocket is trapped in the heater core
 - C) A defective heater control valve
 - D) A slipping water pump drive belt

3. A heated seat cushion uses _____ to produce heat. 3. _____
 - A) engine coolant
 - B) an electric heating element
 - C) 42 volt battery current
 - D) friction

4. The customer concern is poor heater operation, and the top radiator hose and both heater hoses are at 160°F. Technician A says this problem is caused by a plugged heater core. Technician B says the thermostat must be stuck open. Which technician is correct? 4. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

5. An electrically cooled seat operates by forcing air over _____ to cool the seat. 5. _____
 - A) an electronic device
 - B) the heater core
 - C) an auxiliary A/C cooler
 - D) an A/C line

6. Technician A says that a stuck open thermostat can cause poor heater operation. Technician B says low coolant level can cause poor heater operation. Which technician is correct? 6. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

7. Most HVAC systems will default to _____ if there is a failure in the control part of the system. 7. _____
- A) defrost
 - B) floor heat
 - C) full cold A/C
 - D) A/C only
8. Coolant is hottest in which area? 8. _____
- A) Bottom of the radiator
 - B) Near the thermostat
 - C) At the overflow container
 - D) Near the outlet of the water pump
9. Two technicians are discussing the coolant flow through a heater core. Technician A says that heated coolant enters the heater inlet hose close to the engine thermostat. Technician B says the coolant from the heater core returns to the water pump outlet. Which technician is correct? 9. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
10. Heat is transferred from the hot coolant flowing through the _____ to warm the air flowing through the fins of the heater core. 10. _____
- A) water tubes
 - B) hoses
 - C) radiator
 - D) blower motor

Answer Key

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1. B
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