

*Automotive Heating and Air Conditioning, 9th Edition*

**Quiz 17B**

NAME \_\_\_\_\_

1. The RRR machine will charge \_\_\_\_\_ of the total charge so that the technician can find a leak. 1. \_\_\_\_\_  
A) 26%  
B) 50%  
C) 15%  
D) 100%
  
2. Where would the technician find the type of oil used in the A/C system? 2. \_\_\_\_\_  
A) On the safety certification label  
B) The owner's manual  
C) On the underhood decal  
D) On the spare tire RPO label
  
3. Mixed refrigerants can result is \_\_\_\_\_. 3. \_\_\_\_\_  
A) increased cooling  
B) high outlet temperatures  
C) pressures too low  
D) improved oil circulation
  
4. Which of these does NOT affect the refrigerant recovery process? 4. \_\_\_\_\_  
A) Color of the refrigerant  
B) Ambient temperature  
C) Amount that is in the system  
D) Type of equipment used
  
5. An R-1234yf refrigeration system is found to have a leaking evaporator. What should the technician do? 5. \_\_\_\_\_  
A) Repair the leak with epoxy.  
B) Repair the leak by welding.  
C) Replace the evaporator with a new one.  
D) None of these
  
6. Finding leaks using the dye method requires the use of \_\_\_\_\_. 6. \_\_\_\_\_  
A) sun glasses  
B) an ultraviolet lamp  
C) special wiping cloths  
D) oil-sensing gloves
  
7. If the shop area is cold, what can help make the recovery process go faster? 7. \_\_\_\_\_  
A) A large fan  
B) A pre-heat procedure  
C) Use two recovery machines  
D) Run the blower while recovering

8. Too much air in the refrigerant can cause which of these? 8. \_\_\_\_\_
- A) Pressures too high
  - B) High outlet temperatures
  - C) Both A and B
  - D) Neither A nor B
9. Why does a technician need to be certified in order to handle refrigerants? 9. \_\_\_\_\_
- A) Refrigerants are explosive so training is needed.
  - B) It is a requirement of the Clean Air Act.
  - C) It is a good idea but not required.
  - D) Only dealers need to be certified.
10. What indicates that all of the refrigerant has been recovered? 10. \_\_\_\_\_
- A) A 5 minute pressure rise
  - B) At least 2 minutes of a stable vacuum reading
  - C) Recovery for at least 10 minutes
  - D) A rise in vacuum of 2.0 inch Hg

## Answer Key

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1. A  
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3. B  
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4. A  
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6. A  
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