

Automotive Heating and Air Conditioning, 9th Edition

Quiz 15B

NAME _____

1. A container of recovered R134a refrigerant has a pressure of 91 psi at 80 degrees F. This indicates _____ 1. _____
A) a normal condition
B) that air is in the container
C) that the refrigerant is contaminated
D) that the container is overheated

2. Technician A says that a system should be evacuated for twice as long if the vacuum pump will only pull it down to 20" Hg. Technician B says that the system might have a leak in it if it will not pull down into a deep vacuum. Which technician is correct? 2. _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

3. If an A/C system contains contaminated refrigerant, how can the contaminated refrigerant be removed? 3. _____
A) Use the R134a equipment along with a special filter.
B) The refrigerant cannot be removed.
C) Vent it to the atmosphere.
D) Use a separate recovery machine that is dedicated to contaminated refrigerant recovery.

4. The SAE standard J2788 requires minimum equipment performance from _____ 4. _____
A) the R134a refrigerant
B) recovery and recycling machines
C) the vehicle heating system
D) the seat heaters

5. A/C system flushing uses _____ to remove contaminants and oil from the system. 5. _____
A) a special liquid
B) high pressure shop air
C) steam
D) microbial fluids

6. Technician A says that checking refrigerant odor (HC smell) is a reliable way to check for contaminated refrigerant. Technician B says that refrigerant with more than 2% of a foreign refrigerant normally should be sent off for reclaiming or disposal. 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. A vacuum pump removes water from the air conditioning system by _____. 7. _____
- A) boiling it
 - B) condensing it
 - C) mixing it with the oil
 - D) pulling it into the desiccant
8. Technician A says that the same recovery unit can be used for R-12 and R-134a. Technician B says that the service hoses from an R-134a recovery unit must have shutoff valves within 18 inches of the end. Which technician is correct? 8. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
9. Why should service technicians check a system for the presence of sealant before recovering the refrigerant? 9. _____
- A) It can harm the recovery machine
 - B) It can contaminate the refrigerant that is stored in the recovery container
 - C) It can damage a refrigerant identifier
 - D) All of the above
10. Present standards and good work habits require that recovered refrigerant be _____. 10. _____
- A) sent out to be discarded at an EPA-certified facility
 - B) recycled
 - C) sent back to the manufacturer
 - D) kept for 90 days

Answer Key

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1. A
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2. B
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3. D
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4. B
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5. A
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6. B
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7. A
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8. D
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9. D
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