

Automotive Heating and Air Conditioning, 9th Edition

Quiz 16A

NAME _____

1. High-side pressure is affected by _____. 1. _____
 - A) ambient temperature
 - B) fan clutch operation
 - C) refrigerant charge level
 - D) All of these

2. Technician A says that a quick check of A/C system operation is to feel the temperature of the suction and discharge lines. Technician B says that the suction line should be cold and the discharge line hot after 5 minutes of system operation. 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. HVAC diagnostic trouble codes are found stored in the body control module (BCM) and will turn ON the check engine light if a fault is present. 3. _____
 - A) True
 - B) False

4. When using a scan tool to diagnose an AC system, where are any AC related trouble codes usually found? 4. _____
 - A) In the driver information center (instrument cluster)
 - B) Powertrain control module (PCM)
 - C) Body or chassis systems
 - D) Read out in the navigation screen

5. Most A/C performance tests include _____. 5. _____
 - A) start the engine, set the parking brake, and raise the idle to 2,000 RPM
 - B) measure ambient temperature 3 inches (80 mm) in front of the condenser and measure the humidity
 - C) open the doors and set the blower speed to high which applies the maximum load on the system
 - D) All of the above

6. Technician A says that retrofitting a system is simply a matter of recovering the R-12 and recharging it with a drop-in refrigerant. Technician B says that the charge level specification is the same with R-134a as with R-12. 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. What could be wrong if the A/C compressor clutch cycles on and off rapidly? 7. _____
- A) Defective A/C compressor
 - B) Defective A/C compressor clutch
 - C) Low refrigerant charge
 - D) Shorted compressor diode
8. When retrofitting a system from R-12 to R-134a, what is NOT required to be replaced? 8. _____
- A) Identity sticker
 - B) Compressor
 - C) Fittings
 - D) Receiver-drier or accumulator
9. The temperature difference between the inlet and outlet of the condenser should be _____. 9. _____
- A) equal
 - B) 10°F to 30°F
 - C) 20°F to 50°F
 - D) Greater than 60°
10. A musty, moldy smell in the air-conditioning system is usually due to _____. 10. _____
- A) mildew-type fungus growth
 - B) a restricted evaporator
 - C) a clogged condenser
 - D) a weak or defective AC compressor

Answer Key

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