

EPA Section 609 Sample Test

1. What is the ozone depletion potential (ODP) of CFCs (Choro Fluro Carbons)?
 - A. 1
 - B. .01
 - C. .1
 - D. .055
2. To what level of vacuum, measured in inches of mercury (in/Hg), must a MVAC (Mobile Vehicle Air Conditioning) system be evacuated to before being recharged?
 - A. 2 inches
 - B. 29.2 inches
 - C. 20 inches
 - D. 24 inches
3. Before delivering a full system charge, the equipment used to recharge R 1234yf system will first place the system under a minimum vacuum of_____.
 - A. 26.9 inches of mercury
 - B. 2.9 inches of Mercury
 - C. 29.5301 inches of Mercury
 - D. 1181.2 inches of Mercury
4. What area of the earth's atmosphere contains the ozone layer?
 - A. Troposphere
 - B. Stratosphere
 - C. Mesosphere
 - D. Exosphere
5. Which of these is the color code for R 134a disposable refrigerant cylinders?
 - A. Brown
 - B. Grey
 - C. Light blue
 - D. White

6. Which of these is a pungent, slightly blue gas that absorbs certain wavelengths of the sun's radiation?

- A. Oxygen
- B. Ozone
- C. Nitrogen
- D. argon

7. According to the Clean Air Act, all records related to MVAC (Mobile Vehicle Air Conditioning) system servicing must be retained for_____.

- A. 1 year
- B. 2 years
- C. 3 years
- D. 4 years

8. Which refrigerant is rated as mildly flammable and can ignite under certain circumstances?

- A. R 134a
- B. R 1234yf
- C. R 12
- D. R 152a

9. What type of fitting is used on the high side of an A/C systems equipped with R 1234yf?

- A. 7/16 diameter with a 20 threads per inch
- B. Quick coupler
- C. 6/16 diameter with a 20 threads per inch
- D. Quick Disconnecting with lock nut

10. Chlorine reacts with ozone and converts ozone to which of these?

- A. Carbon Dioxide
- B. Oxygen
- C. Nitrogen
- D. Carbon Monoxide

11. All of these must be recovered and disposed of according to all federal, state and local rules, EXCEPT _____.
- A. O2
 - B. R12
 - C. R1234YF
 - D. R134a
12. EPA established specific label colors for each refrigerant as part of its SNAP approval. What color is used R 134a?
- A. White
 - B. Sky Blue
 - C. Yellow
 - D. Light Green
13. Which of these organization developed standards that apply to the recovery and recycling of motor vehicle refrigerant as well as service guidelines for A/C technicians?
- A. DOT (Department of Transportation)
 - B. EPA (Environmental Protection Agency)
 - C. ISO (International Standards Organization)
 - D. SAE (Society of Automotive Engineers)
14. What is the process called to remove refrigerant in any condition from a system and store it in an approved external container without first being recycled?
- A. Recover
 - B. Recycling
 - C. Reclaim
 - D. Recharge
15. When using an electronic leak detector, always follow the manufacturer's operating instructions with all of the following should be observed, EXCEPT _____.
- A. Always leak test with the engine on
 - B. Visually inspect the system, for signs of A/C oil leakage
 - C. To leak test an evaporator core, operate the A/C with the blower on low
 - D. Visually inspect the system, and look for signs of compressor oil leakage,

16. What percent of Recovery is required by the EPA per SAE standard J2788.
- A. 95
 - B. 85
 - C. 50
 - D. 40
17. Which of these will result in insufficient cooling and higher pressures than normal?
- A. Air in the refrigerant
 - B. Mixed refrigerants
 - C. Both A and B
 - D. Neither A nor B
18. When handling refrigerants or operating recover/ recycle equipment, the technician should do all of these, EXCEPT _____.
- A. Wear safety glasses
 - B. Wear protective gloves
 - C. Follow A/C equipment safety procedures.
 - D. Keep a fire extinguisher close by
19. What refrigerant must use recovery and reclaiming equipment rated or approved for use with a flammable gas?
- A. R 12
 - B. R 152a
 - C. R 1234yf
 - D. R 134a
20. What type of thread is found on a R 1234yf refrigerant tank?
- A. 7/16 in. x 20
 - B. RH ACME
 - C. LH ACME
 - D. Gray colored threads

21. Which of these refrigerants has the lowest global warming potential?
- A. CFC 12
 - B. R 1234yf
 - C. R 744
 - D. HFC 134a
22. R 12 production ended in the United States in what year?
- A. 1992
 - B. 2000
 - C. 1990
 - D. 1995
23. Which of these refrigerants has the highest operating pressures?
- A. R 744
 - B. HFC 152a
 - C. R 1234yf
 - D. CFC 12
24. An evaporator with a small leak is being repaired or replaced on a vehicle that has an R 1234yf refrigeration system. What action should the technician take??
- A. Any aftermarket evaporator can be used to replace it
 - B. The evaporator should be repaired by welding
 - C. A new part meeting SAE standards must be used
 - D. None of these are correct
25. The use of R 134a in motor vehicles in the United States is banned starting in what year?
- A. 2017
 - B. 2021
 - C. 2025
 - D. 1999

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Answer Key

1. A
2. B
3. A
4. B
5. C
6. B
7. C
8. B
9. B
10. B
11. A
12. B
13. D
14. A
15. A
16. A
17. C
18. D
19. C
20. C
21. C
22. D
23. A
24. C
25. B