

TEST BANK



AHRI Air-Conditioning, Heating,
and Refrigeration Institute

Fundamentals of HVAC/R

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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) List three industry organizations which offer student memberships or clubs 1) _____
 - A) ACCA, RSES, and ASHRAE
 - B) AHRI, EPA, DOT
 - C) EPA, DOT, UL
 - D) No industry organizations offer student memberships or clubs

- 2) RSES stands for 2) _____
 - A) Residential Sales Engineers Society
 - B) Respond Simply, Eloquently, and Succinctly
 - C) Residential Service Electrical Society
 - D) Refrigeration Service Engineers Society

- 3) ACCA stands for 3) _____
 - A) American Cooling Consortia Association
 - B) Air Conditioning Contractors of America
 - C) Amalgamated Cooling Contractors Association
 - D) Applied Cooling Contractors of America

- 4) AHRI stands for 4) _____
 - A) Air-Conditioning, Heating & Refrigeration Institute
 - B) American Heating Resources Institute
 - C) American Hypothermic Refrigeration Institute
 - D) Air Heating Resources Institute

- 5) ASHRAE stands for 5) _____
 - A) American System for Heating, Refrigeration, and Air Conditioning Excellence
 - B) Air System Heating, Recycling, and Exporting
 - C) American Society of Heating, Refrigerating and Air-Conditioning Engineers
 - D) Amalgamated Society of Heating, Recycling, and Air Conditioning Engineers

- 6) NATE stands for 6) _____
 - A) National Association for Technical Excellence
 - B) North American Technical Excellence
 - C) National Air Conditioning Trades Exam
 - D) Northern Aligned Trades Excelsior

- 7) Technicians must pass the section 608 EPA certification exam before they can 7) _____
 - A) Install ductwork
 - B) Handle refrigerant
 - C) Wire units
 - D) All of the above

- 8) What is the purpose of the Industry Competency Exam (ICE)? 8) _____
 - A) To demonstrate the technical proficiency of seasoned service technicians
 - B) Technicians must pass the ICE before they can handle refrigerant
 - C) To demonstrate the students understand fundamental HVACR concepts
 - D) To demonstrate technical proficiency of seasoned system installers

- 9) What is the purpose of Skills USA competitions? 9) _____
 - A) Allow students to demonstrate their technical proficiency on real world problems
 - B) Allow promising young technicians to enter HVACR free agency
 - C) Allow service managers to bid for promising young talent in the Skills Draft

D) Allow seasoned technicians to demonstrate their technical proficiency

- 10) What topics are covered by the NATE core exam? 10) _____
- A) Gas furnaces, heat pumps, and chillers
 - B) comfort, heat transfer, and fundamentals of electricity
 - C) System application, System sizing, and duct design
 - D) Brazing, refrigerant recovery, and direct digital controls
- 11) Some of the NATE specialty areas include 11) _____
- A) System application, System sizing, and duct design
 - B) job estimation, service pricing, customer assurance
 - C) air conditioning, gas heating, and heat pumps
 - D) Brazing, refrigerant recovery, and direct digital controls
- 12) What is the difference between a code and a standard? 12) _____
- A) Standards often carry with them the force of law and codes do not.
 - B) They are really two names for the same thing.
 - C) Codes often carry with them the force of law and standards do not.
 - D) Standards are national laws and codes are state and local laws.
- 13) A situation where a drop cloth could be necessary would be 13) _____
- A) When working somewhere you might fall
 - B) To prevent getting your clothes dirty when working in a crawlspace
 - C) When working somewhere you might drop your tools
 - D) Below a pull down stair casing leading to the attic
- 14) What information should you relay to the customer when making a repair? 14) _____
- A) Tell the customer how much it will cost to fix the problem and avoid discussing technical issues that might confuse them.
 - B) Give the customer a detailed description of all the diagnostic measurements you performed and their results.
 - C) Tell the customer what failed, why it failed, and the options to fix the problem.
 - D) Tell the customer that it would be more cost effective to replace the unit.
- 15) If you locate a problem with a customer's system and they choose not to have you provide that repair, what should you do? 15) _____
- A) Tell the customer that you are going to report them to the local inspector who can have them arrested for having a unit in their condition.
 - B) Note that on the customer's invoice as part of your service call record keeping.
 - C) Remove a critical part so that the unit cannot operate.
 - D) Explain to the customer that you work on commission and will not be able to pay your rent if they do not purchase the repair.

- 1) A
- 2) D
- 3) B
- 4) A
- 5) C
- 6) B
- 7) B
- 8) C
- 9) A
- 10) B
- 11) C
- 12) C
- 13) D
- 14) C
- 15) B