

APPLICANT'S NAME: _____

DATE: _____

SCORE: _____

CT011 DUCT (HVAC) MECHANIC

Below are some multiple-choice questions pertaining to Duct Mechanics.
Circle the BEST possible answer for each question.

1. What is the term for a metal flap inside of ductwork that opens and closes to regulate airflow?
 - A. Closure
 - B. Damper
 - C. Grate
 - D. Grill

2. A large supply duct extending from a furnace with branches to various rooms is commonly known as what?
 - A. Insulated system
 - B. Common system
 - C. Plenum system
 - D. Dopple system

3. Where would the placement of a smoke detector be in a return air duct?
 - A. By the air handler
 - B. After the outside air duct
 - C. Before the outside air duct
 - D. None of the above

4. What is the term for metal duct hangers that resemble metal tape perforated with holes?
 - A. Straps
 - B. Clamps
 - C. Hinges
 - D. Loops

5. Doing "what" to supply ducts can minimize air conditioning and heating costs?
 - A. Wrapping
 - B. Painting
 - C. Narrowing
 - D. Insulating

6. All joints in ductwork installation should be what?
 - A. Riveted
 - B. Sealed
 - C. Glued
 - D. Screwed

7. The unit that pushes hot or cold air through the ductwork is known as what?
 - A. Condenser
 - B. Turbine
 - C. Blower
 - D. Accumulator

8. Drive clips faster the flanged sides for rectangular ductwork together, what fastens the flat edges?
 - A. Duct tape
 - B. T clamps
 - C. S cleats
 - D. Pop rivets

9. What is essential to deliver satisfactory heating and cooling system performance?
 - A. Proper duct dimensions
 - B. Proper return airflow
 - C. Proper thermostat placement
 - D. All of the above

10. Mineral or fiber glass composed duct systems should not be used for installation in what type of conditions?
 - A. Damp
 - B. Elevated
 - C. Dry
 - D. Sloped

11. The two most common types of metal ducting are galvanized metal and what?
 - A. Lead
 - B. Aluminum
 - C. Tin
 - D. Nickel

12. Turning vanes reduce turbulence and pressure loss as the airflow does what?
 - A. Passes a louver
 - B. Enters a grill
 - C. Turns a corner
 - D. None of the above

13. A common abbreviation for the entire system that ductwork compliments is what?
 - A. V.H.C.A.
 - B. C.A.H.V.
 - C. H.V.A.C.
 - D. A.V.H.C.

14. What is the term for the devices used to slow down and distribute air delivered from a duct into open spaces?

- A. Dispatchers
- B. Collectors
- C. Suppliers
- D. Diffusers

15. The arrow below is pointing to what measurement?

- A. $4 \frac{1}{4}$ "
- B. $4 \frac{5}{8}$ "
- C. $4 \frac{7}{8}$ "
- D. $4 \frac{3}{8}$ "

