Fleet Multi Temp – Quiz 1

Name:_____ Number Correct:____ /15

Multiple Choice
Identify the choice that best completes the statement or answers the question.
This quiz should take approximately 15 minutes to complete.

1. An example of convection in the trailer is:
    a. Air moving around the load to collect heat.
    b. The evaporator coil releasing heat to the return air.
    c. The condenser coil absorbing heat from the ambient air.
    d. All of the above.

2. Refrigeration unit capacity & heat of respiration are measured in:
    a. Pounds per hour.
    b. Btu's per hour.
    c. Degrees Fahrenheit per hour.
    d. Degrees Celsius per hour.

3. Transport refrigeration units are designed to:
    a. Maintain product temperature.
    b. Change product temperature.
    c. Cool a load fresh from the field.
    d. All of the above.

4. Which component raises the pressure, temperature & saturation point of the refrigerant?
    a. TXV.
    b. Compressor.
    c. Condenser.
    d. Evaporator.

5. The refrigerant changes from a vapor to a liquid in the:
    a. TXV.
    b. Compressor.
    c. Condenser.
    d. Evaporator.

6. A unit has the following unit ID # 04168L4808. What is the month and year of manufacture?
    a. Feb-99
    b. Apr-11
    c. Dec-06
    d. Sep-87

7. To prevent accidental unit start-up while servicing belts, pulleys or fans, always:
    a. Turn the unit ON/OFF switch to OFF and remove the negative battery cable.
    b. Turn the unit ON/OFF switch to OFF and remove the positive battery cable and then the negative battery cable.
    c. Remove F15 from the microprocessor controller.
    d. All of the above.

8. The recommended procedure for purging the lines when installing a gauge manifold set is to secure the:
    a. High pressure line on the discharge service valve and purge lines towards the suction service valve.
    b. High pressure line on the suction service valve and purge lines toward the suction service valve.
    c. Low pressure line on the discharge service valve and purge lines towards the suction service valve.
    d. Low pressure line on the suction service valve and purge lines towards the discharge service valve.

9. To check for the recommended charge of refrigerant, perform a/an _____.
    a. Compressor Capacity Test
    b. Controlled Refrigerant Level Check
    c. Low Side Pumpdown
    d. Overcharge test

10. Ambient temperature is 100 F and the TK refrigeration unit has been sitting in the yard over the weekend. A gauge on the discharge service valve indicates a reading of 124 psig. From this information, what is the refrigerant type?
    a. R-134A
    b. R-402B
    c. R-404A
    d. R-407C

11. Refrigerant recovery tanks should be filled to no more than _____.
    a. The top of the tank
    b. 50% capacity
    c. 80% capacity
    d. 100 psig on the gauge

12. Which procedure is recommended to perform service on the low side without refrigerant loss?
    a. Compressor Pumpdown
    b. Seal Point Elimination
    c. Low Side Pumpdown
    d. Compressor Capacity Test

13. To perform a controlled refrigerant level check,
    a. Run the unit for five to ten minutes in high-speed cool, and gradually cover the condenser as you check for liquid in the sight glass.
    b. Install a gauge manifold, operate the unit in heat mode, maintain a 35 F box temperature and cover the condenser.
    c. Install a gauge manifold, run the unit in high-speed cool, maintain a 0 F box temperature and discharge pressure at 275 or greater.
    d. Install a gauge manifold, run the unit in high-speed cool, maintain a -20 F box temperature and discharge pressure equivalent to 100 F ambient.

14. What type of oil is required when a unit is charged with R-404A?
    a. AB (Alkyl Benzene)
    b. Mineral
    c. PAG (Polyalkylbenzene Glycol)
    d. POE (Polyolester)

15. Because R-404A is a ternary blend refrigerant, it is recommended that it be charged as a _____.
    a. Gas
    b. Vapor
    c. Liquid
    d. Condensable