Fleet Multi Temp Quiz 3

Name:_____ Number Correct:____/10

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

1. When leak checking a TK trailer unit,
    a. Test immediately after the unit shifts from high speed to low speed.
    b. Check for leaks before and after the unit has reached operating temperature.
    c. Only check a unit after it has reached 325 psig discharge pressure.
    d. Only check for leaks before the unit is turned on.

2. A unit's low side is pumped down and the unit is shut off. What will the low pressure gauge indicate if the compressor shaft seal is leaking?
    a. It will become equal with the high pressure gauge.
    b. It depends upon the amount of vacuum reached during the pumpdown.
    c. It will rise to zero psig and stop.
    d. It will most likely remain in a vacuum

3. The purpose of the Compressor Capacity test is:
    a. To measure the amount of refrigerant that the compressor pumps.
    b. To test the piston reeds and compressor performance capability.
    c. To determine if the refrigerant charge is correct.
    d. To test if the low side pressure has any restrictions.

4. When installing the bellows type compressor shaft seal:
    a. Clean the mating ring (hard ring) and primary ring (bronze ring) with alcohol wipes followed by the use of lint-free dry wipes.
    b. Apply absolutely clean compressor oil to the polished surfaces of the seal, the lip seal and the seal plate gasket.
    c. Do not touch or damage the polished seal surfaces.
    d. All of the above.

5. To prevent refrigeration system contamination:
    a. Open the system in a vacuum.
    b. Put rags over any open tubing.
    c. Establish a 1-3 lb positive pressure before servicing the compressor.
    d. Evacuate and dehydrate the unit for no more than two hours.

6. To test the performance of the compressor:
    a. Box temps must be below 0 F.
    b. Ambient temp must be below 50 F.
    c. Increase discharge pressure to 300 – 350 psig.
    d. All of the above.

7. According to Thermo King specifications, during the Compressor Oil Pressure Check, the pressure differential between the compressor crankcase pressure and the oil pump pressure should be between:
    a. 5 & 10 psig.
    b. 15 & 20 psig.
    c. 20 & 35 psig.
    d. 35 & 40 psig.

8. The first step, according to reference document, “Clean-up of Refrigeration Systems with Thermo King Compressors,” is to:
    a. Draw a compressor oil sample and refer to the reference document for procedure.
    b. Always perform an acid test and refer to the reference document for procedure.
    c. Recover the refrigerant and evacuate the system. Proceed with steps as outlined in the reference document.
    d. Determine how the contamination has occurred, perform a leak test & proceed with an acid test.

9. Acid in a refrigeration system is caused by:
    a. The addition of nitrogen to the system.
    b. Heat, pressure and moisture in the system.
    c. Using the wrong type of solder when performing a repair.
    d. None of the above.

10. When performing an Acid test:
    a. The filter/drier must be replaced.
    b. The compressor oil filter must be replaced and checked for metal.
    c. The presence of acid will change the color of the test kit liquid.
    d. Flush the compressor and the system if the oil is yellow.