



A/C and Heat Pump Sample Exam

Module: 1

- 1 What does PSIG stand for regarding A/C systems?
- A Pounds per Square Inch Guarantee
 - B Pounds per Square Inch Gage
 - C Pounds per Square Inch Geared
 - D Pounds per Square Inch Gross
- 2 Superheat is a measurement of what factor
What is superheat a measurement of?
- A Rise in liquid pressure
 - B Rise in liquid temperature
 - C Rise in vapor pressure
 - D Rise in vapor temperature above its saturation temperature

Module: 2

- 3 Which of the following metering devices controls evaporator pressure?
- A Thermostatic expansion valve
 - B Fixed orifice
 - C Low side float
 - D EPR valve
- 4 Which process causes water to change state from a liquid to a vapor?
- A Latent heat gain
 - B Sensible heat gain
 - C Latent heat loss
 - D Sensible heat loss
- 5 What is the proper pitch to the drain for a horizontal condensate line?
- A 1/8" per 10' of run.
 - B 1/4" per 10' of run.
 - C 1" per 10' of run.
 - D 3" per 10' of run.
- 6 What type of metering device is used on a packaged air conditioning unit with gas heat and a single compressor?
- A Line set
 - B Catapult assembly
 - C Cap tube assembly
 - D Capillary tube assembly
- 7 At what compressor cylinder temperature will oil begin to breakdown?
- A 225 degrees F
 - B 300 degrees F
 - C 325 degrees F
 - D 350 degrees F

Module: 3



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- 8 What could be the trouble with a system showing a low low-side superheat with high condenser subcooling?
- A Refrigerant overcharge
 - B Refrigerant undercharge
 - C A partial refrigerant restriction
 - D Low condenser airflow
- 9 On a standard gauge manifold set, what is the center hose used for?
- A Measuring high side pressure.
 - B Measuring low side pressure.
 - C As a spare.
 - D Reclaiming refrigerant.
- 10 Where do you measure for compressor cylinder temperature?
- A No more than six inches out on the discharge line.
 - B No more than six inches out on the suction line.
 - C More than six inches out on the discharge line.
 - D More than six inches out on the suction line.

Answers: 1:B, 2:D, 3:D, 4:A, 5:C, 6:D, 7:B, 8:A, 9:D, 10:A