HEATING and AIR CONDITIONING

l.	Th	e 220-240 volt circuit usually consists of	wires,	hot wire,		
	a.	3/1/2	c.	3/2/1		
		4/2/2		4/3/1		
2	. Т	The refrigerant rate of flow is controlled by:	:			
	a.	line set	_	compressor		
	b.	expansion meter	d.	thermostat		
3	. V	When charging on the low side, the refriger	ant must be	:		
	a.	liquid	c.	warm		
	b.	vapor	d.	cold		
4	. V	What is typically used to solder the refrigerant lines:				
	a.	gold	c.	silver		
		plastic	d.	copper		
5		are the common metering devices in split system heat pumps.				
	a.	TXVs	d.	filters		
	b.	pistons	e.	manifold gauges		
	c.	condensers				
6	j. V	What are two types of leak detectors:				
	a.	gas detector & bubble gauge	c.	leak detector & soap suds		
		gas detector & capillary tube	d.			
7	'. I	ow voltage thermostats for an apartment h	nome HVA	C system operate on:		
	a.			12 volts		
		10 volts	d.	18 volts		
8	.	What can cause an air handler to leak co	ondensation	water inside the apartment?		
	a.	the coils are frozen	d	all of the above		
	а. b.	clogged drain line	u.	all of the above		
	c.	low on freon				
	~.					

9. What is the first step taken to determine if a heating element is bad?						
a. use an ohm meter at the element	c.	drain system				
b. use an ohm meter at the thermos		check the transformer				
10. You suspect that a HVAC fan motor is not working, and you have determined that the motor is receiving power; the next thing to do is:						
a. check the capacitor with ohm m	eter c.	check the motor with ohm meter				
b. switch the thermostat to auto		replace a breaker				
11. What types of refrigerant are used in a residential HVAC system?						
a. R12		R410A				
b. R22	d.	B & C				
12. In order to work on the refrigerant system a person must be?						
a. Licensed contractor	c	EPA certified				
b. OSHA certified	d.	none of the above				
Date: N	Vame:					

HVAC ANSWERS

- 1. C
- 2. B
- 3. B
- 4. C
- 5. A
- 6. C
- 7. A
- 8. D
- 9. A
- 10. A
- 11. D
- 12. C