## **CMGT 235 – Electrical and Mechanical Systems**

Department of Construction Management ® California State University, Chico

Homework #6 – HVAC and Psychrometrics					
Points: 30					
Due	: 2/18/2016				
Nan	ne:				
1.	1. Identify each of the HVAC symbols shown:				
	)				
	T				
_					
	_ 1				
_					
	DU				
	RH				
	Н				
	D				
2.	. Air speed is measured in				
3. Air volume is measured in					
Use a Psychometric Chart to answer questions 4-11					
4.	4. If you have a wet bulb temperature of 55 degrees and a relative humidity of 60%, what is the dry bulb				
	temperature?				
5.	5. If you have a relative humidity of 75% and an absolute humidity of 80, what is the dry bulb temperature?				

6.	If you have a dry bulb temperature of 68 degrees and an absolute humidity of 70, what is the relative humidity?				
7.	If you have a wet bulb temperature of 45 degrees and a dry bulb temperature of 65 degrees, what is the relative humidity?				
8.	•	et bulb temperature of 25 c	legrees and a relative humidity of 90, what is the dry bulb		
9.	A space at sea level is 70°F and RH = 55% Find the other properties of the air in that space.				
	DB	°F			
	RH	%			
	WB	°F			
	Humidity	Gr/lb			
	VP	In Hg			
	Enthalpy	Btu/lb			
	Vs	ft³/lb			
	Dew Point	°F			
	temperature from	om 45°F to 70°F?	air. How much heat is required (Btu) to raise the dry bulb legrees and a relative humidity of 55, what is the dry bulb		
13.	A(n)		aturation line. quired to raise 1 lb of water 1°F. uired to melt a ton of ice over a 24-hour period.		
	5. Enthalpy is the sum of latent heat and heat.				