

1. P and V are conjugate variables, while the conjugate variable of tempera A) S B) U C) k_B	ature <i>T</i> i	S
2. If A has a higher chemical potential than B, particles will	В	
A) flow right, from A to B B) flow left, from B to A high μ	low µ	
3. When heat flows into this system, its temperature decreases. This system A) ascetic B) miserly C) impossible	n is <u>Q</u>	cools
4. At energies near its maximum (N ₁ =N), a paramagnet is A) ascetic B) miserly C) neither		
5. If A has a negative temperature, and B a positive one, then heat will flow		
ov in 7 times at 110 gate to the posterior of area 2 at posterior of the first time to the first time time to the first time time time to the first time time time time time time time tim		

- 6. If a system is destroyed and its energy released, the amount of energy that can be used as useful work is
- A) chemical potential B) enthalpy C) free energy

Physics 3410 Quiz 6	
in the beautiful of	Name:

Pleas	se write the letter of the correct answer in the box provided. Name:		
А	1. P and V are conjugate variables, while the conjugate variable of temperat A) S B) U C) k_B	ure T is	5
Д	2. If A has a higher chemical potential than B, particles will A) flow right, from A to B B) flow left, from B to A high µ	B low µ	
В	3. When heat flows into this system, its temperature decreases. This system A) ascetic B) miserly C) impossible	is <u>Q</u>	cools
А	4. At energies near its maximum (N₁=N), a paramagnet isA) ascetic B) miserly C) neither		
5. If A has a negative temperature, and B a positive one, then heat will flow			В
H	A) right, from A to B B) left, from B to A C) neither of these		T>0
•••••	6. If a system is destroyed and its energy released, the amount		,

- of energy that can be used as useful work is
- A) chemical potential B) enthalpy C) free energy