

Final Examination for PHYS 6220/7220, 28th January 2024

First

Last

Student Name:

Instructions: This test is worth a total of 5 points.

1. Define the 3rd law of thermodynamics? **[1 point]**
2. Define the temperature T^{-1} in statistical mechanics? **[1 point]**
3. Define the entropy S in statistical mechanics? **[1 point]**
4. Define the correct enumeration of states in quantum statistical mechanics? **[1 point]**
5. Define the correct value of entropy S called the Sachur-Tetrode form? **[1 point]**