

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**]