ASSIGNMENT

C-6: Thermal Physics

DUE DATE: 30/9/2023

1.	What do you mean by adiabatic demagnetization?	(2 marks)
2.	Show that Clausius-Claperyron equation represents equilibrium between p	(4 marks)
3.	What is the law of equipartition of energy? Based on this law, show that for a molecule, the specific heat $C_v = \frac{5}{2}R$ per mole.	diatomic (2+2=4 marks)
4.	Derive an expression for coefficient of viscosity using kinetic theory.	(4 marks)