**Dr. SHYAMA PRASAD MUKHERJEE UNIVERSITY**

**SCHOOL OF ENVIRONMENTAL SCIENCE**

**M.Sc SEM-II ASSIGNMENT**

PAPER- CC-IV UNIT-II

Q1. Define molarity. Find the molality and molarity of a 15% solution of H₂SO₄ when its density is 1.10 g/cm3. & molar mass = 98 amu.

Q2. Define Normality. If 0.040g NaOH is dissolved in 100 ml (0.1 L) of solution, what is Normality of NaOH solution?

Q3. What is Gibb’s free energy? Define the Laws of Thermodynamics.

Q4. What do you mean by work and power? Define Energy and Its type.

Q5. What is Beer’s Law? Deduce the formula for Lambert’s and Beer’s law.

Q6. Define Specific Heat an its SI unit. What is environmental lapse rate?