DATE

B. Sc. (Hons) Chemistry
Sem II, DSC-6
Thermodynamics & its Application

Time :- 1 hour (one hour) Max Marks: 12

Attempt All Question

Q1 Prove $TV^{\gamma-1}$ = Const. (2)

Q2 Prove entropy is a state function (2)

Q3 Prove $\left(\frac{\partial P}{\partial T}\right)_V = \frac{\alpha}{\beta}$ (2)

Q4. Explain Joule's law. What does it give. (2)

Q5 Derive isothermal expansion of ideal gas and give its value of ΔE, q, w when external Pressure $P=0$ for reversible & irreversible expansion (3)

Q6 Explain residual entropy with an example (2)

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