

**Programme: BS Physics****Semester: 7th****Part: Subjective****Credit Hrs.: 3(3-0)****Course Code: PHY-605****Course Title: Statistical Mechanics****Marks: 80****Time allowed: 2:30 Hours****Note: Attempt all questions. All the questions carry equal marks.**

Q-2(a): Write atleast three important properties of entropy. How do we set up an expression for the entropy in statistical mechanics? (10)

(b) What is STIRLING Approximation? Use it to SHOW that: $\log\left[\frac{N!}{(N/2)!}\right] = \log(2N/e)^{N/2}$. (02)

(c) Write note on the following: Grand Canonical Ensemble (08)

Q-3(a): Given the statement of MAXWELL-BOLTZMANN Velocity DISTRIBUTION,

$\omega(v) = 4\pi\left(\frac{M}{2\pi T}\right)^{3/2} v^2 e^{-\frac{Mv^2}{2T}}$, explain what this statement means in your own words that the MOST

PROBABLE SPEED is given by: $v_{\text{mp}} = \left(\frac{2T}{M}\right)^{1/2}$. (10)

(b): How can we understand GENERAL tendency for the ENTROPY of a closed system to INCREASE? (04)

(c) Calculate the specific heat at constant volume for Helium at 30 K and 450 K. (06)

Q-4(a): Show that a Simple Harmonic Oscillator (SHO), the orbit in PHASE Space is an ELLIPSE. Also mention values of SEMI Major and Minor axes. (14)

(b): Discuss the Analytical Nature of P (q, p) for a Microcanonical Ensemble (06)

Q-5 (a): Show that the CANONICAL Ensemble PARTITION Function of a PERFECT GAS is: $Z = \frac{1}{N!} \left(\frac{V}{\lambda^3}\right)^N$.

where $\lambda = \frac{h}{(2\pi MT)^{1/2}}$, and THEORETICALLY show that this FUNCTION must produce the

ENTROPY of a form: $\xi = N \log\left[\frac{e(V/N)}{\lambda^3}\right] + \frac{3N}{2}$. (10)

(b) A sealed and thermally insulated container of total volume V is divided into two equal volumes by an impermeable wall. The left half of the container is initially occupied by n moles of an ideal gas at temperature T . The CHANGE in ENTROPY of the system when wall is suddenly removed and the gas expands to fill the entire volume. (10)

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