

B. Sc Semester VI (honours) Examination, 2021 (CBCS)

Subject: Physics

Paper: CC-XIV (Statistical Mechanics)

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks. Candidates are required to give answers in their own words as far as practicable.*

Answer any eight of the following questions:

5×8=40

1. Establish a relation between entropy and thermodynamic probability. Calculate the translational entropy of gaseous iodine (Molecular weight 234) at 300K and 1 atmosphere. [Given:  $R = 8.31 \text{ JK}^{-1} \text{ mol}^{-1}$ ,  $V = 0.224 \text{ m}^3$ ]
2. Define  $\mu$  space and  $\Gamma$  space. A linear harmonic oscillator moves with a constant energy along X-axis. What will be its phase trajectory? Can different phase trajectories intersect each other?
3. A system of N distinguishable particles are distributed in two non-degenerate levels separated by an energy gap  $\epsilon$  and are in equilibrium with a reservoir at a temperature T. Find (i) the internal energy (ii) specific heat capacity of the system.
4. A negative temperature system is hotter than a system with positive temperature. Explain why?
5. Show that for a two dimensional electron gas, the number of electrons per unit area is given by,  $n = \frac{4\pi m k_B T}{h^2} \ln \left( e^{\epsilon_F/k_B T} + 1 \right)$ , where the symbols have their usual meaning. Consider a free electron at Fermi level in a metal at 0K. Show that the de Broglie wavelength of the electron is  $2 \left( \frac{\pi}{3n} \right)^{1/3}$ , where n is the number of free electrons per unit volume in the metal.
6. Plot the variation of energy density  $\rho_\lambda$  as a function of wavelength  $\lambda$  at three different temperatures obeying Planck's law of black body radiation. Show that Planck's law reduces to Wien's law for  $h\nu \gg k_B T$  and to Rayleigh-Jeans law for  $h\nu \ll k_B T$ .
7. Define partition function. Write down the properties of partition function. Show that the relation between partition function Z and average pressure is  $\bar{p} = k_B T \left( \frac{\partial \ln Z}{\partial V} \right)$ , where the symbols have their usual meaning.

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**Léo Pomar**



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