CSIR-UGC-NET/JRF - JUNE - 2011

PHYSICAL SCIENCES

Part-B

31. One-dimensional harmonic oscillators are placed on a one-dimensional potential $V(x) = \frac{1}{2}m\omega^2 x^2$. The harmonic oscillator has a weak perturbation $V_p = V_0 \cos(\frac{\pi x}{a})$ such that $-a \le x \le a$, where V_0 and a denote coordinates of the particles. Given that the ground state wavefunction of the harmonic oscillator is $\psi_0(x) = \left(\frac{m\omega}{\pi\hbar}\right)^{\frac{1}{4}} e^{-\frac{m\omega x^2}{2\hbar}}$. The ground state energy of the one-dimensional system, to the first order in V_0, is

(a) $\hbar\omega - V_0$ (b) $\frac{\hbar\omega}{2}$

(c) $\hbar\omega + V_0\left(1 + \frac{\hbar\omega}{2V_0}\right)^{\frac{1}{2}}$ (d) $\frac{\hbar\omega}{2} + V_0\left(1 + \frac{\hbar\omega}{2V_0}\right)$

32. Two grams of ice at 0°C is placed in a Dewar containing 10 grams of water at 25°C. What is the final temperature of the system when all ice melts at thermal equilibrium? The specific heat of water is 1 cal/gm°C and latent heat of melting of ice is 80 cal/gm.

(a) 0°C (b) 5.3°C (c) 12.5°C (d) 1.25°C

33. A vessel has two compartments of volumes V_1 and V_2 containing an ideal gas at pressures p_1 and p_2 and temperatures T_1 and T_2, respectively. If they are at equilibrium the temperature is reached, the resulting equilibrium temperature will be

(a) $\frac{p_1T_1 + p_2T_2}{p_1 + p_2}$ (b) $\frac{p_1V_1T_1 + p_2V_2T_2}{p_1V_1 + p_2V_2}$

(c) $\frac{p_1T_1 + p_2T_2}{(p_1V_1 + p_2V_2)T_1T_2}$ (d) $\frac{p_1V_1T_1 + p_2V_2T_2}{(p_1V_1T_1 + p_2V_2T_2)^2}$

34. For temperatures $T_1 < T_2$, the qualitative temperature dependence of the probability distribution $f(v)$ of the speed v of a molecule in three dimensions is correctly represented by the following figure:

(a) (b)

(c) (d)

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