

Part B

21. The orbital frame of mass m is at rest in a non-inertial frame $\vec{r}(t) = \frac{1}{2}at^2\hat{x}$. The frame rotates with a constant angular velocity $\omega_z = \omega_0\hat{z}$ with $\omega_0 > 0$ and $\omega_0 \ll \omega_c$ where ω_c and ω_0 denote angular velocities of the particle. Show that the ground state wavefunction of the harmonic oscillator

$$\psi_0(\vec{r}) = \left(\frac{m\omega_c}{\pi\hbar}\right)^{3/4} e^{-\frac{m\omega_c}{2\hbar}r^2}$$

in the ground state energy of the non-inertial system is the first order

- (a) $-\frac{1}{2}\hbar\omega_0$
 (b) $-\frac{1}{2}\hbar\omega_c$
 (c) $-\frac{1}{2}\hbar\omega_0\left(1 + \frac{\omega_0}{\omega_c}\right)^{-1}$
 (d) $-\frac{1}{2}\hbar\omega_0\left(1 + \frac{\omega_0}{\omega_c}\right)$

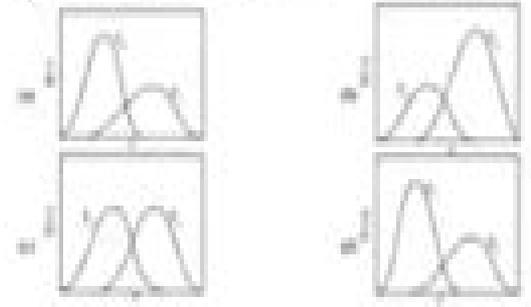
22. The ground state of an sp^3 hybridized molecule containing 24 ground state electrons. What is the first ionization potential of the molecule when it forms an ionic compound? (The ground state of water is $1s^2 2s^2 2p^6 3s^2 3p^4$ and bond length of water is 0.96 Å.)

- (a) 12 eV (b) 13 eV (c) 14 eV (d) 15 eV

23. A molecule has two components of angular momentum J_1 and J_2 containing $2j_1 + 1$ and $2j_2 + 1$ ground states respectively. If the total angular momentum is constant, the resulting composite spectrum will be

- (a) $\frac{2j_1 + 2j_2 + 1}{2j_1 + 2j_2 + 2}$
 (b) $\frac{2j_1 + 2j_2 + 1}{2j_1 + 2j_2 + 1}$
 (c) $\frac{2j_1 + 2j_2 + 1}{2j_1 + 2j_2 + 3}$
 (d) $\frac{2j_1 + 2j_2 + 1}{2j_1 + 2j_2 + 4}$

24. For a spinless $l = 1$ p -state, the probability distribution of the probability distribution $P(r)$ of the point r of a molecule in three dimensions is correctly represented by the following figure.



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