

Q-39 The total energy of an ionic solid is given by an expression $E = -\frac{\alpha e^2}{4\pi\epsilon_0 r} + \frac{B}{r^n}$ where α is Madelung constant, r is the distance between the nearest neighbours in the crystal and B is a constant. If r_0 is the equilibrium separation between the nearest neighbours then the value of B is

- (A) $\frac{\alpha e^2 r_0^2}{36\pi\epsilon_0}$ (B) $\frac{\alpha e^2 r_0^2}{18\pi\epsilon_0}$ (C) $\frac{2\alpha e^2 r_0^2}{9\pi\epsilon_0}$ (D) $\frac{\alpha e^2 r_0^2}{36\pi\epsilon_0}$

Q-40 A proton is confined to a cubic box, whose sides have length 10^{-12} m. What is the minimum kinetic energy of the proton? The mass of proton is 1.67×10^{-27} kg and Planck's constant is 6.63×10^{-34} Js.

- (A) 1.1×10^{-17} J (B) 3.3×10^{-17} J (C) 9.9×10^{-17} J (D) 6.6×10^{-17} J

Q-41 For the function $f(z) = \frac{100}{(z+3)(z-1)^2}$, the residue at the pole $z = 1$ is (your answer should be an integer) _____.

Q-42 The degenerate eigenvalue of the matrix

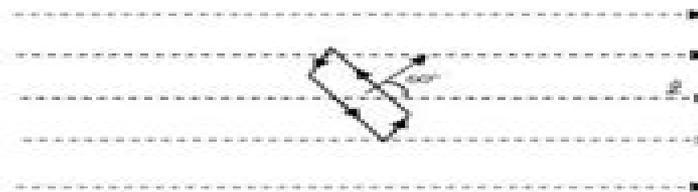
$$\begin{bmatrix} 4 & -1 & -1 \\ -1 & 4 & -1 \\ -1 & -1 & 4 \end{bmatrix} \text{ is (your answer should be an integer) } \underline{\hspace{2cm}}$$

Q-43 Consider the decay of a pion into a muon and an anti-neutrino $\pi^- \rightarrow \mu^- + \bar{\nu}_\mu$ in the pion rest frame.

$$m_\pi = 139.6 \text{ MeV}/c^2, \quad m_\mu = 105.7 \text{ MeV}/c^2, \quad m_{\bar{\nu}_\mu} = 0$$

The energy (in MeV) of the emitted neutrino, to the nearest integer is _____.

Q-44 In a constant magnetic field of 0.6 Tesla along the x direction, find the value of the path integral $\oint \vec{A} \cdot d\vec{l}$ in the units of (Tesla m^2) on a square loop of side length $(1/\sqrt{2})$ meters. The normal to the loop makes an angle of 60° to the x -axis, as shown in the figure. The answer should be up to two decimal places. _____



Q-45 A spin-half particle is in a linear superposition $0.8|↑\rangle + 0.6|↓\rangle$ of its spin-up and spin-down states. If $|↑\rangle$ and $|↓\rangle$ are the eigenstates of σ_x , then what is the expectation value, up to one decimal place, of the operator $10\sigma_x + 5\sigma_z$? Here, symbols have their usual meanings. _____

Q-46 Consider the wave function $Ae^{ikr}(r_0/r)$, where A is the normalization constant. For $r = 2r_0$, the magnitude of probability current density up to two decimal places, in units of $(A^2 \hbar k/m)$, is _____.

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