

1. Which of the following is true for an electron:

- (A) Electron is a spin $\frac{1}{2}$ particle which obeys Fermi-Dirac statistics
- (B) Electron is a spin $\frac{1}{2}$ particle which obeys Bose-Einstein statistics
- (C) Electron is an integral spin particle which obeys Maxwell-Boltzman statistics
- (D) Electron is an integral spin particle which obeys Bose-Einstein statistics

2. A system of two identical Bosons, each of mass m , is placed in a 1-d box of length L . If the energy of the system is $5\pi^2 \hbar^2 / 2 mL^2$, then the space part of the wavefunction is given by

- (A) $\psi(1,2) = \sqrt{\frac{2}{L}} \left[\sin \frac{\pi x_1}{L} \sin \frac{2\pi x_2}{L} + \sin \frac{\pi x_2}{L} \sin \frac{2\pi x_1}{L} \right]$
- (B) $\psi(1,2) = \sqrt{\frac{2}{L}} \left[\sin \frac{\pi x_1}{L} \sin \frac{2\pi x_2}{L} - \sin \frac{\pi x_2}{L} \sin \frac{2\pi x_1}{L} \right]$
- (C) $\psi(1,2) = \frac{\sqrt{2}}{L} \left[\sin \frac{\pi x_1}{L} \sin \frac{2\pi x_2}{L} + \sin \frac{\pi x_2}{L} \sin \frac{2\pi x_1}{L} \right]$
- (D) $\psi(1,2) = \frac{\sqrt{2}}{L} \left[\sin \frac{\pi x_1}{L} \sin \frac{2\pi x_2}{L} - \sin \frac{\pi x_2}{L} \sin \frac{2\pi x_1}{L} \right]$

3. The canonical partition function is a function of which of the following combination of thermodynamic variables:

- (A) S, V, N
- (B) T, V, N
- (C) T, V, μ
- (D) T, P, μ

4. The chemical potential of an ideal gas in the grand canonical ensemble depends on the number density $n (= N / V)$ and temperature T in the following way

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G Orfield



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