

Symbols have their usual meaning
Section A: Multiple Choice Type

- Which of the following expresses the Hermite polynomial $H_4(x)$?
 (a) $16x^4 - 48x^2 + 32x^2 + 8x$ (b) $16x^4 - 48x^2 - 36$
 (c) $16x^4 + 48x^2 - 12x$ (d) $16x^4 - 48x^2 + 12$
- The value of $\int_{-\infty}^{\infty} x^2 e^{-\alpha x^2} dx$ is
 (a) $\frac{1}{2}\sqrt{\frac{\pi}{\alpha^3}}$ (b) $\sqrt{\frac{\alpha^{3/2}}{\pi}}$ (c) $\pi\alpha^3$ (d) $\sqrt{\frac{\pi}{\alpha}}$
- The integral $\oint_C z^{-2} dz$, where C is the unit circle with centre at the origin and traversed anticlockwise, is
 (a) 0 (b) $-4\pi i$ (c) $2\pi i$ (d) $-i\pi$
- A dynamical system with two generalized coordinates q_1 and q_2 has Lagrangian $L = \dot{q}_1^2 + \dot{q}_2^2$. If p_1 and p_2 are the corresponding generalized momentum, the correct form of the Hamiltonian for this system is
 (a) $\frac{p_1^2}{4} + \frac{p_2^2}{4}$ (b) $\frac{p_1^2}{2} + \frac{p_2^2}{2}$ (c) $\frac{q_1^2}{2} + \frac{q_2^2}{2}$ (d) $p_1 q_1 + p_2 q_2$
- A particle moves under a central force $F \propto r^n$, where r is the distance of the particle from the force center. Bound state is possible only for
 (a) $-3 < n < -1$ (b) $n = \frac{1}{2}$ (c) $n = 2$ (d) $-1 < n < 0.5$
- A solid sphere, a solid cylinder and a circular ring all of same diameter, are allowed to roll down a rough inclined plane from same height. Which will reach the bottom first?
 (a) sphere (b) cylinder
 (c) circular ring (d) all will reach at the same time
- Which of the following is the orbital angular momentum eigenfunction $Y_l^m(\theta, \phi)$ in a state for which the operators L^2 and L_z have eigenvalues $6\hbar^2$ and $-\hbar$, respectively?
 (a) $Y_2^3(\theta, \phi)$ (b) $Y_2^{-1}(\theta, \phi)$
 (c) $\frac{1}{\sqrt{2}}[Y_2^3(\theta, \phi) + Y_2^{-1}(\theta, \phi)]$ (d) $Y_2^2(\theta, \phi)$

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Ian Pickup



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