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 Department of Physics  
 Semester IV

**Question bank: Quantum Mechanics (Paper II)**

1)	A momentum operator in one dimension is (a) $-i\hbar \frac{d}{dx}$ (b) $i\hbar \frac{d}{dx}$ (c) $i\hbar \frac{d^2}{dx^2}$ (d) $\hbar \frac{d^2}{dx^2}$ <b>Ans: a</b>	A
2)	For a particle restricted to move in $x$ -direction, kinetic energy operator is (a) $-\frac{\hbar^2}{2m} \frac{d^2 \psi}{dx^2}$ (b) $-\frac{\hbar^2}{2m} \frac{d^2}{dx^2}$ (c) $-\frac{\hbar^2}{2m} \frac{d^2}{dx^2}$ (d) $\frac{\hbar}{2m} \frac{d^2 \psi}{dx^2}$ <b>Ans: b</b>	B
3)	A position vector operator in three dimensions is: (a) $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$ (b) $\vec{r} = \sqrt{x^2 + y^2 + z^2}$ (c) $\vec{r} = x + y + z$ (d) $\vec{r} = x\hat{i}$ <b>Ans: a</b>	A
4)	Which of the following is an eigenfunction of kinetic energy operator? (a) $\alpha e^{ikx^2}$ (b) $x^2$ (c) $e^{ikx}$ (d) $-e^{2ikx^2}$ <b>Ans: c</b>	C
5)	Which of the following is not a physical requirement for a wave function to be valid? (a) single valued (b) continuous in a given region (c) time dependent (d) time independent <b>Ans: d</b>	D
6)	Which of the following functions are normalizable over the indicated intervals? (a) $f(\theta) = e^{-i\theta}; 0 \leq \theta \leq 2\pi$ (b) $f(x) = e^{2x}; -\infty \leq x \leq \infty$	a

# Sybsc Question Paper Sem 2 2013 Pattern

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