

14. According to Bohr's theory, the angular momentum of an electron in 5<sup>th</sup> orbit is (2006)

- 1)  $25\frac{h}{\pi}$     2)  $1.0\frac{h}{\pi}$     3)  $10\frac{h}{\pi}$     4)  $2.5\frac{h}{\pi}$

Ans.

$$4) mvr = \frac{nh}{2\pi} = \frac{5h}{2\pi} = 2.5\frac{h}{\pi}$$