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The Bohr radius of the hydrogen atom and the Compton wavelength of electron are given by  $a_0 = \frac{4\pi\epsilon_0\hbar^2}{me^2}$  and  $\lambda_c = \frac{h}{mc}$  respectively. Hence a  $\lambda_c = 2.426 \times 10^{-12} \text{ m}$  (e2 c)  $\lambda_c = 2.426 \times 10^{-12} \text{ m}$ , where  $\epsilon_0$  is the permittivity of free space.

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structure constant. Hence the answer is (a). 1004

Estimate the electric field needed to pull an electron out of an atom in

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