1. If the kinetic energy of an electron is increased four times, the wavelength of the de-Broglie wave associated with it would become

(1) Two times

(2) Half

(3) One fourth

(4) Four times

Q1. $\lambda = \dfrac{h}{P}$

$K = \dfrac{P^2}{2m}$ $\Rightarrow$ if K increases 4 times

P increases 2 times

$\therefore$ λ become half.