30 Photoelectric emission occurs from a certain metal when light of wavelength less than or equal to λ is incident on the metal surface. When light of wavelength $\lambda / 2$ is incident on the surface, the maximum kinetic energy of the emitted electrons is E_k.

What is the maximum kinetic energy of the emitted electrons when light of wavelength $\lambda / 3$ falls on the surface?

A $\frac{1}{3}E_k$ **B** $\frac{2}{3}E_k$ **C** $2E_k$ **D** $3E_k$