A photon of energy 6.40×10^{-19} J is incident on a metal plate. This causes photoemission to take place.

The work function of the metal is 4.20×10^{-19} J.

The maximum speed of the photoelectron is

A
$$1.19 \times 10^6 \,\mathrm{m \, s^{-1}}$$

$$B \qquad 9.60 \times 10^5 \, \text{m s}^{-1}$$

C
$$6.95 \times 10^{5} \,\mathrm{m \, s^{-1}}$$

D $6.79 \times 10^{5} \,\mathrm{m \, s^{-1}}$

E $4.91 \times 10^5 \,\mathrm{m \, s^{-1}}$

 $9.60 \times 10^5 \,\mathrm{m \, s^{-1}}$