10. Ultraviolet radiation of frequency $7 \cdot 70 \times 10^{14}$ Hz is incident on the surface of a metal.

Photoelectrons are emitted from the surface of the metal.

The maximum kinetic energy of an emitted photoelectron is $2 \cdot 67 \times 10^{-19}$ J.

The work function of the metal is

A $1 \cdot 07 \times 10^{-19}$ J

B $2 \cdot 44 \times 10^{-19}$ J

C $2 \cdot 67 \times 10^{-19}$ J

D $5 \cdot 11 \times 10^{-19}$ J

E $7 \cdot 78 \times 10^{-19}$ J.