

- 28** An electron of mass m and charge e is accelerated from rest through an electric field of potential difference V .

What is the frequency of a photon whose wavelength is equal to the de Broglie wavelength of this electron?

A $\frac{c\sqrt{2meV}}{h}$

B $\frac{h}{\sqrt{2meV}}$

C $\frac{hc}{eV}$

D $\frac{eV}{h}$