27		nich electromagnetic wave would cause the most significant diffraction effect for an atomic ice of spacing around 10 <sup>-10</sup> m?
	A	infra-red
	В	microwave
	С	ultraviolet
	D	X-ray

28 An electron is in an electric field of strength  $5 \times 10^4 \, V \, m^{-1}$ . The field is the only influence on the electron.

The mass and charge of an electron are known.

Which quantity can be calculated without any more information?

- A the force on the electron
- **B** the momentum of the electron
- **C** the kinetic energy of the electron
- **D** the speed of the electron

## Space for working