

- 31** Two horizontal parallel plate conductors are separated by a distance of 5.0 mm in air. The lower plate is earthed and the potential of the upper plate is +50 V.

What is the electric field strength E at a point midway between the plates?

- A** $1.0 \times 10^4 \text{ V m}^{-1}$ downwards
- B** $1.0 \times 10^4 \text{ V m}^{-1}$ upwards
- C** $2.0 \times 10^4 \text{ V m}^{-1}$ downwards
- D** $2.0 \times 10^4 \text{ V m}^{-1}$ upwards

Space for working