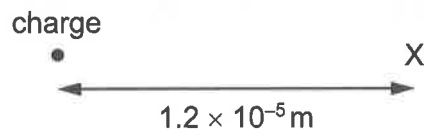


- 21** A fixed charge is isolated in space. The electric potential at X, a distance of $1.2 \times 10^{-5} \text{ m}$ from the fixed charge, is $-1.2 \times 10^{-4} \text{ J C}^{-1}$, as shown.



At one instant, an α -particle passes through point X.

What is the magnitude of the electric field strength at the midpoint between the α -particle and the fixed charge at this instant?

- A** 40 N C^{-1} **B** 60 N C^{-1} **C** 80 N C^{-1} **D** 120 N C^{-1}

