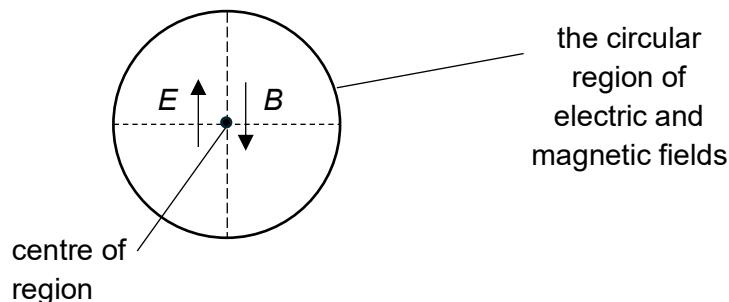


- 22** An electron beam initially passes through the centre of a region in a direction out of the plane of the paper.

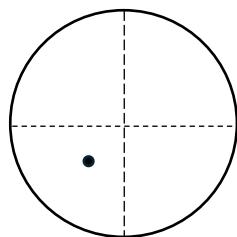
Subsequently, the electric and magnetic fields are directed within a circular region in directions as shown by the arrows in the diagram below.



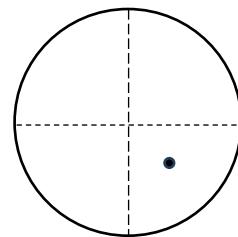
The deflections of the beam from the centre of the region produced by the electric field E and the magnetic field B acting separately are equal in magnitude.

Which diagram shows a possible position of the beam in the circular region when both fields are operating together?

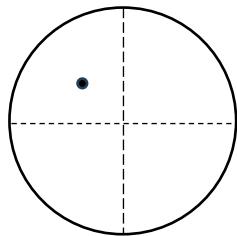
A



B



C



D

