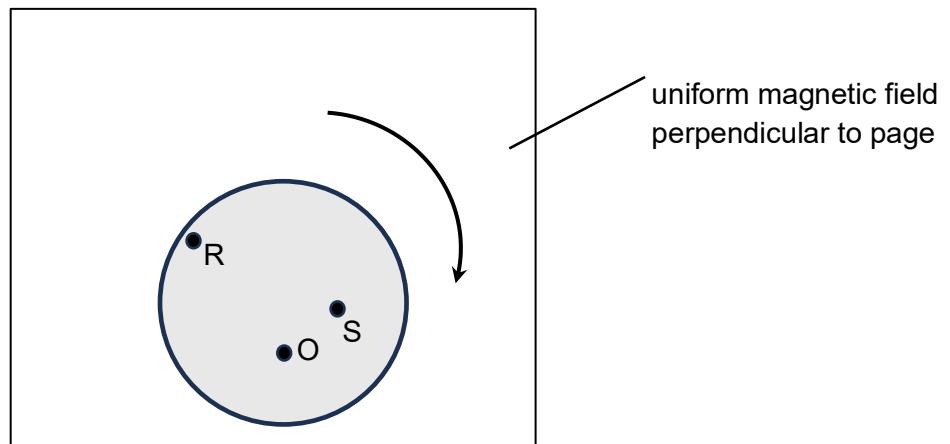


- 25** The figure below shows a copper disc rotating at constant angular speed about its centre O in a uniform magnetic field acting perpendicular to the page. Point R is at a distance  $r$  from the centre O. The induced e.m.f. between O and R is  $E$ .

Point S is at a distance  $\frac{r}{2}$  from O.



What is the induced e.m.f. between R and S?

- A**  $E/4$    **B**  $E/2$    **C**  $3E/4$    **D**  $E$