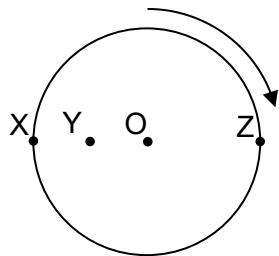


- 24 An aluminium disc is rotated about its centre O at a constant angular speed. It is placed in a uniform magnetic field perpendicular to its surface. X and Z are on the circumference, and Y is midway between O and X. The magnitude of the e.m.f. between any two points, for instance "X" and "Y", is denoted as  $E_{XY}$ .



Which of the following options is correct?

- A  $E_{XY} < E_{YO}$
- B  $E_{XY} = E_{YO}$
- C  $E_{XY} < E_{YZ}$
- D  $E_{XY} = E_{YZ}$