

- 26** A straight wire of length 15 m is placed horizontally along the East-West direction. The wire is raised vertically through a height of 5.0 m in 150 ms.

The magnetic flux density due to the Earth's magnetic field at this location is  $3.0 \times 10^{-5}$  T at an angle of  $50^\circ$  below the horizontal.

What is the average e.m.f. induced across the ends of the wire?

- A** 0.0 mV      **B** 9.6 mV      **C** 11 mV      **D** 15 mV