

- 25** In a region where the magnetic flux density of the Earth is 5.6×10^{-5} T, and directed at 72° to the horizontal, a ceiling fan with four horizontal blades rotates about a vertical axis at a frequency of 1.6 Hz. The length of each blade is 0.55 m.

What is the e.m.f. induced between the axle of the fan and the tips of the blades?

A $26 \mu\text{V}$

B $81 \mu\text{V}$

C $85 \mu\text{V}$

D $150 \mu\text{V}$

