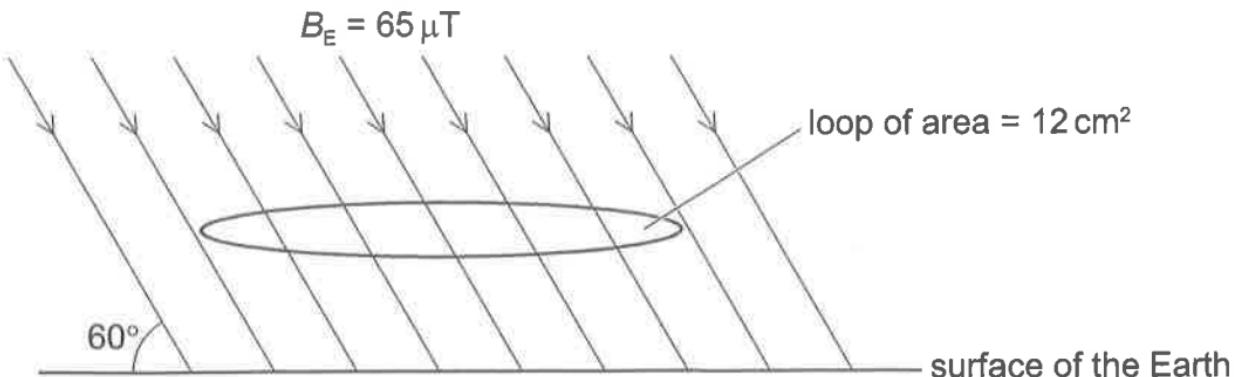


- 25 A flat, circular loop of wire, enclosing an area of  $12\text{ cm}^2$ , is held horizontally above the Earth's surface. The Earth's magnetic flux density  $B_E$  is  $65\text{ }\mu\text{T}$  in a direction making an angle of  $60^\circ$  with the horizontal.



What is the magnetic flux through the loop of wire?

- A  $3.9 \times 10^{-8}\text{ Wb}$
- B  $6.8 \times 10^{-8}\text{ Wb}$
- C  $3.9 \times 10^{-4}\text{ Wb}$
- D  $6.8 \times 10^{-4}\text{ Wb}$

- 26 The variation with time  $t$  of an alternating current  $I$  is shown