30 An air-cored transformer has a coil of 35 turns of area $7.0 \times 10^{-5} \, \text{m}^2$. The maximum flux density in the coil is $2.1 \times 10^{-4} \, \text{T}$.

What are the maximum magnetic flux and the maximum magnetic flux linkage through the coil?

	maximum magnetic flux / Wb	maximum magnetic flux linkage / Wb
A	1.47×10^{-8}	4.2×10^{-10}
B	1.47×10^{-8}	5.1×10^{-7}
C	3.0	0.086
D	3.0	105