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## NCERT-12.8.7

## EE23BTECH11005 - Ambati Krishna Kaustubh

## QUESTION

The amplitude of the magnetic part of a harmonic eletromagnetic wave

is  $B_0 = 510$ nT.What is the amplitude of the electric part of the electromagnetic wave.

$$\frac{E_0}{B_0} = c \tag{1}$$

$$E_0 = c * B_0 \tag{2}$$

$$E_0 = 153V - m \tag{3}$$

Parameter	Description	Value
$B_0$	Amplitude of the Electric Field	510nT
С	Speed of Electro Magnetic Wave	$3\times10^8 ms^{-1}$
$E_0$	amplitude of the Electric Field	153V-m

TABLE 1 Parameter Table