

If E and H represents the intensity of electric field and magnetising field respectively, then the unit of  $E/H$  will be :

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- (a) ohm    (b) mho    (c) joule    (d) newton

$$\text{(a) } E = V/\ell, B\ell = \mu_0 i \Rightarrow H = i/\ell$$

$$\Rightarrow \mu_0 H\ell = \mu_0 i$$

$$\text{So } \frac{E}{H} = \frac{V\ell}{i} = R$$

So unit is ohm.