For an RLC circuit driven with voltage of amplitude vm and frequency $\omega_0 = \frac{1}{\sqrt{LC}}$ the current exhibits resonance. The quality factor, Q is given by : JEE MAIN 2018.

- $A \frac{CR}{\omega_0}$
- $\frac{\omega_0 L}{R}$
- $\frac{\omega_0 R}{L}$

5. For given RIC circuit; Wo = 1 => JC = # 1 Work - Quality factor (Q) = 1 1 = I (I) (TI) R (JC) = 1 (wo JL) (JL) $Q = \frac{\omega_0 L}{R}$