

JEE Main 2020 Paper



Let T_1 be the time period in ground state and T_2 be the time period in it's first excited state.

$$T_1 = \frac{n^3}{2^2}$$

(Where, n = excitation level and 2 is atomic no.)

$$\frac{T_1}{T_2} = \left(\frac{n_1}{n_2}\right)^3$$

Given,

$$T_1 = 1.6 \times 10^{-16} \text{ s}$$

So,

$$\frac{1.6 \times 10^{-16}}{T_2} = \left(\frac{1}{2}\right)^3$$

$$T_2 = 12.8 \times 10^{-16} \text{ s}$$

Frequency is given by $f = \frac{1}{T}$

$$f = \frac{1}{12.8} \times 10^{16} \text{ Hz}$$

$$f = 7.8128 \times 10^{14} \text{ Hz}$$

11. A LCR circuit behaves like a damped harmonic oscillator. Comparing it with a physical spring-mass damped oscillator having damping constant 'b', the correct equivalence will be

a. $L \leftrightarrow \frac{1}{b}, C \leftrightarrow \frac{1}{m}, R \leftrightarrow \frac{1}{k}$

b. $L \leftrightarrow k, C \leftrightarrow b, R \leftrightarrow m$

c. $L \leftrightarrow m, C \leftrightarrow k, R \leftrightarrow b$

d. $L \leftrightarrow m, C \leftrightarrow \frac{1}{k}, R \leftrightarrow b$

Solution:(d)

For damped oscillator by Newton's second law

$$-kx - bv = ma$$

$$kx + bv + ma = 0$$

$$kx + b \frac{dx}{dt} + m \frac{d^2x}{dt^2} = 0$$

For LCR circuit by KVL

$$-IR - L \frac{dI}{dt} - \frac{q}{c} = 0$$

$$\Rightarrow IR + L \frac{dI}{dt} + \frac{q}{c} = 0$$

$$\Rightarrow \frac{q}{c} + R \frac{dq}{dt} + L \frac{d^2q}{dt^2} = 0$$

By comparing

$$R \Rightarrow b$$

Jan Physics Paper As

Michael Brown



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