

JEE MAIN ALTERNATING CURRENT — LC OSCILLATIONS — PYQS
Max. Marks: 4
Questions: 1
Section A (MCQ) — 1 question

- Q.1** A capacitor C is first charged fully with potential difference of V_0 and disconnected from the battery. The charged capacitor is connected across an inductor having inductance L. In t s, 25% of the initial energy in the capacitor is transferred to the inductor. The value of t is _____ s.

[JEE Main 2026 (Online) 21st January Evening Shift]

(1) $\frac{\pi\sqrt{LC}}{3}$

(2) $\frac{\pi\sqrt{LC}}{2}$

(3) $\pi\sqrt{\frac{LC}{2}}$

(4) $\frac{\pi\sqrt{LC}}{6}$

 Scan or tap for the
full solution

ANSWER KEY

Ques.	1										
Ans.	4										