

JEE MAIN ALTERNATING CURRENT — AC VOLTAGE APPLIED TO AN INDUCTOR — PYQS**Max. Marks: 4****Questions: 1****Section B (Numerical) — 1 question**

- Q.1** An inductor stores 16 J of magnetic field energy and dissipates 32 W of thermal energy due to its resistance when an a.c. current of 2 A (rms) and frequency 50 Hz flows through it. The ratio of inductive reactance to its resistance is _____. ($\pi = 3.14$)

[JEE Main 2026 (Online) 28th January Evening Shift]

Scan or tap for the
full solution

**ANSWER KEY**

Ques.	1						
Ans.	314						