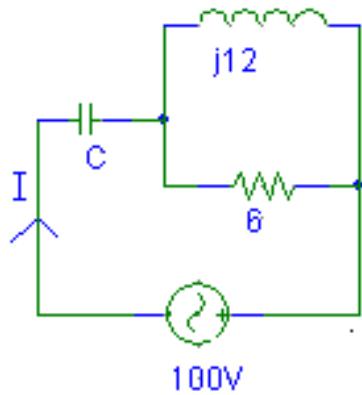


Unit I: Assessment Question Bank

Lecture -32

1. The circuit shown in figure operates at a frequency of 50Hz. Determine the value of C such that the input voltage V and the input current I are in the same phase



2. Branch A of a parallel circuit consists of an inductive coil with resistance 50Ω and inductor of $0.1H$ and branch B consists of a resistor of 45Ω in series with a capacitor of $100\mu F$. Calculate the current, power and power factor of the circuit when the supply voltage is $230V$, $50Hz$.