

# NCERT ANALOG

## 12.7.17

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**Question 17:** Keeping the source frequency equal to the resonating frequency of the series  $LCR$  circuit, if the three elements,  $L$ ,  $C$ , and  $R$  are arranged in parallel, show that the total current in the parallel  $LCR$  circuit is minimum at this frequency. Obtain the current rms value in each branch of the circuit for the elements and source specified in Exercise 7.11 for this frequency

$\varepsilon = 230V$ ,  $L = 5.0H$ ,  $C = 80\mu F$ ,  $R = 40\Omega$

