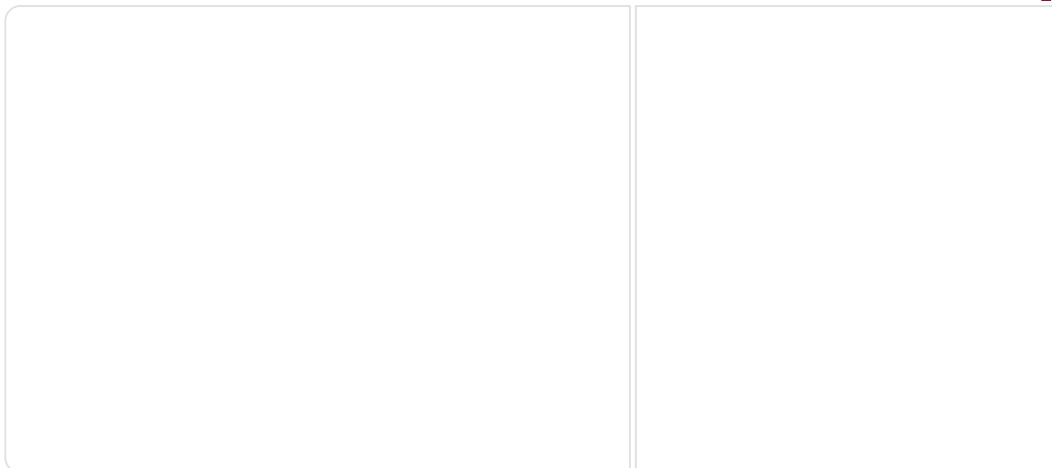


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RLC Circuits and Resonance Online Test – Multiple Choice Questions and Answers



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Congratulations – you have completed **RLC Circuits and Resonance Online Test Set 1**.

You scored **3** points out of **10** points total.

Your answers are shown below:

1. When a full band of frequencies is allowed to pass through a filter circuit to the output, the resonant circuit is called a:

- bandpass filter
- low-pass filter

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- high-pass filter
- **band-stop filter**

2. At any resonant frequency, what net voltage is measured across the two series reactive components?

- Reactive voltage
- **Zero voltage**
- Applied voltage
- $V_L + V_C$ voltage

3. What would be the power factor for an RLC circuit that acts inductively?

- +90 degrees leading
- -90 degrees lagging
- **one**
- zero

4. Current in a series RLC circuit may always be used as:

- a leading vector
- a lagging vector
- **a reference**
- an angle

5. What effect will a parallel tank have upon final filter current?

- The impedance will block output
- **The frequency cutoff will change**
- The bandpass frequencies will change
- very little

6. If the bandwidth of a filter increases:

- the center frequency decreases

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- **the half-power frequency decreases**
- Q decreases
- the roll-off rate increases

7. What is the Q (Quality factor) of a series circuit that resonates at 6 kHz, has equal reactance of 4 kilo-ohms each, and a resistor value of 50 ohms?

- 50
- **80**
- 0.001
- 4.0

8. Voltage lags current in an RLC circuit when it acts:

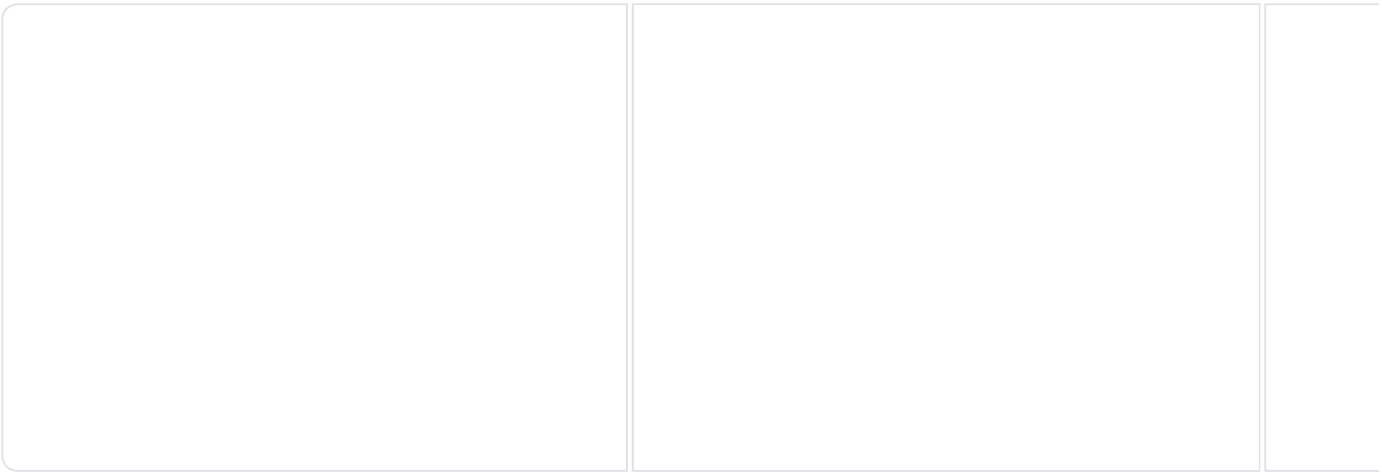
- capacitively
- resistively
- **inductively**
- resonantly

9. At any resonant frequency, what voltage is measured across the two series reactive components?

- **applied**
- inductive and capacitive
- reactive
- zero

10. Which statement best describes reactance in a series RLC circuit?

- **Resistance is always dominant**
- The larger of the two reactances is dominant
- Inductive reactance is always dominant
- Capacitive reactance is always dominant



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