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1) If the value of resonant frequency is 50 kHz in a series RLC circuit along with the bandwidth of about 1 kHz, then what would be the value of quality factor?

- a. 5
- b. 50
- c. 100
- d. 500

Answer Explanation

ANSWER: 50

Explanation:

No explanation is available for this question!

2) What will be the nature of impedance at a frequency below the antiresonant frequency?

- a. Capacitive
- b. Inductive
- c. Reactive
- d. Resistive

Answer Explanation

ANSWER: Inductive

Explanation:

No explanation is available for this question!

3) What would be the value of impedance of a parallel resonant circuit at antiresonance condition?

- a. Resistive & maximum
- b. Resistive & minimum
- c. Reactive & maximum
- d. Reactive & minimum

Answer Explanation

ANSWER: Resistive & maximum

Explanation:

No explanation is available for this question!

4) The current leads supply voltage if a series resonant circuit exhibits its operation _____ the resonant frequency

- a. Above
- b. Below
- c. Equal to
- d. None of the above

Answer Explanation

ANSWER: Below

Explanation:

No explanation is available for this question!

5) If an a.c. signal generator drives a series RLC circuit, then the circuit undergoes resonance only due to variation in _____

- a. Supply voltage
- b. Series resistance
- c. Supply frequency
- d. Phase angle

Answer Explanation

ANSWER: Supply frequency

Explanation:

No explanation is available for this question!

6) How do the series resonant circuit behave under the resonance condition?

- a. Current amplifier
- b. Transconductance
- c. Voltage regulator
- d. Voltage amplifier

Answer Explanation

ANSWER: Voltage amplifier

Explanation:

No explanation is available for this question!

7) Reactance curve is basically a graph of individual reactances verses _____

- a. Frequency
- b. Phase
- c. Amplitude

d. Time period

Answer Explanation

ANSWER: Frequency

Explanation:

No explanation is available for this question!

8) Which among the following condition is true at the resonance?

a. $X_c > X_L$

b. $X_c = X_L$

c. $X_c < X_L$

d. None of the above

Answer Explanation

ANSWER: $X_c = X_L$

Explanation:

No explanation is available for this question!

9) Which among the following get/s cancelled under the resonance condition in a.c. circuits, if inductive and capacitive reactances are in parallel?

a. Reactance

b. Susceptance

c. Resistance

d. All of the above

Answer Explanation

ANSWER: Susceptance

Explanation:

No explanation is available for this question!

10) What would be the value of power factor for series RLC circuit under the resonance phenomenon?

a. 0

b. 0.5

c. 1

d. Infinity

Answer Explanation

ANSWER: 1

Explanation:

No explanation is available for this question!