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Physics Lab(15PHYL17/27) Viva  
Questions: EXPERIMENTS: 1. Black box  
experiment; Identification of unknown  
passive electrical components and  
determine the value of Inductance and

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Capacitance. 2. Series and parallel LCR Circuits (Determination of resonant frequency and quality factor) 3. I-V Characteristics of Zener Diode.

## **Physics Lab (15PHYL 17/27) Viva Questions**

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MAXIMUM POWER TRANSFER THEOREM

1. State Maximum power transfer theorem. Maximum power is delivered to the load resistance from the network when its resistance

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DEPARTMENT OF ENGINEERING PHYSICS  
Viva Question Answers I / II SEMESTER  
SUB: ENGG. PHYSICS LAB ... Name the  
black body generally used for accurate  
experiment work. Ferry black body  
designed by Ferry. 8) What is radiation  
of heat? ... What is the importance of  
series resonance circuits?

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## **DEPARTMENT OF ENGINEERING PHYSICS**

An example could be the sum of voltages across a series connection of a resistor and an inductor. Phasors simplify this analysis by considering only the amplitude and phase components of the sine wave. Moreover, they can be solved using complex algebra or treated

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vectorially using a vector diagram.

## **Electrical Circuits Lab Viva Questions and Answers ...**

What is the condition for resonance for an RLC series circuit? A circuit is said to be in resonance when the applied voltage and current are in phase. For an RLC series circuit, at resonance the

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inductive and capacitive reactance are equal. 2. How the RLC series circuit behaves for the frequencies above and below the resonant frequencies.

## **Important Short Questions and Answers: Resonance and ...**

Experiments in Physics - SERIES AND  
PARALLEL RESONANT CIRCUIT Indian

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Academy of Sciences. ... Series  
Resonance : ... How to answer TELL ME  
ABOUT YOURSELF interview question -  
Duration: ...

**Experiments in Physics - SERIES  
AND PARALLEL RESONANT CIRCUIT**  
Series Resonance Example No2. A series  
circuit consists of a resistance of  $4\Omega$ , an

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inductance of 500mH and a variable capacitance connected across a 100V, 50Hz supply. Calculate the capacitance require to produce a series resonance condition, and the voltages generated across both the inductor and the capacitor at the point of resonance.

## **Series Resonance in a Series RLC**

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## **Resonant Circuit**

To experimentally determine the resonance frequency in a series RLC circuit and compare this to the expected resonance value. Introduction: The voltage through an RLC series circuit will be measured as a function of frequency for a fixed applied voltage. The frequency for which the rms voltage

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attains a maximum value is the resonance frequency.

## **Experiment 10 ~ RLC Series circuit**

Viva Voce. Resources. ... What is meant by resonance produced in the resonance column? Natural frequency of the tuning fork  $>$  Frequency of air column. Natural frequency of the tuning fork  $\neq$

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Frequency of air column. ... What happens to the resonance position if we take kerosene oil in place of water in the resonance column experiment?  
Suddenly ...

**Resonance Column (Viva Voce) :**  
**Class 11 : Physics : Amrita ...**

Resonance and Effect of R: At very low

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frequencies, capacitor C will be an open circuit, and virtually no current will flow through the circuit. At very high frequencies, inductor L will be an open circuit, and again no current will flow. However, at intermediate frequencies, both  $X_C$  and  $X_L$  will be moderate,...

## **Series LCR Circuits (Theory) :**

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This is Practical of series Resonance R-L-C ckt for Basic Electrical Engineering.

## **Series Resonance : R-L-C, Practical BEE**

In a parallel resonant circuit at resonance, the impedance is referred to as: a) The equal reactance point and is

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at maximum. b) The dynamic resistance and is at minimum.

## **LCR Parallel Circuits Quiz - Learn About Electronics**

Since this is a series circuit, the current found for the total will also be the current flowing through the reactive components. •  $V_C = (X_C)(I_T) =$

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$(2.168\text{k}\Omega)(7.521\text{mA}) = 16.306\text{V}$  •  $V_L = (X_L)(I_T) = (2.168\text{k}\Omega)(7.521\text{mA}) = 16.306\text{V}$  As you can see, the resonant circuit appears to amplify the voltages.

## **Series and Parallel Resonance - Electronics**

Physicslab Sonometer Viva Questions

01. What is the principle involved in

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Sonometer experiment? Ans: Resonance  
02. Which type of waves...

## **Physicslab Sonometer Viva Questions | cinterviews.com ...**

At resonance in series RLC circuit, two reactances become equal and cancel each other. So in resonant series RLC circuit, the opposition to the flow of

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current is due to resistance only. At resonance, the total impedance of series RLC circuit is equal to resistance i.e  $Z = R$ , impedance has only real part but no imaginary part and this impedance at resonant frequency is called dynamic impedance ...

## **Resonance in Series RLC Circuit |**

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## **Electrical4U**

A Helmholtz resonator is a cavity that resonates with a frequency that depends on the dimensions of the cavity. The name comes from an acoustic device created in the 1850s by the German physicist Herman von Helmholtz (1821 - 1894). An example of Helmholtz resonance is the pleasant sounds

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created...

## **Physics Experiment 3, the Helmholtz Resonator : Patrick ...**

Switching our attention to series LC circuits, we experiment with placing significant resistances in parallel with either L or C. In the following series circuit examples, a  $1\ \Omega$  resistor ( $R_1$ ) is

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placed in series with the inductor and capacitor to limit total current at resonance.

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