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Resonance

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## **Viva Question Series Resonance**

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**Experiment**

current amplitude at resonance and also, the r.m.s. value of current is given by  $\text{max rms } I I = 2$ . 9) Why is the series circuit called as acceptor circuit? Because it accept one frequency component out of the input signals having different frequencies. The accepted frequency is equal to its own resonance frequency.

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**DEPARTMENT OF  
ENGINEERING And  
PHYSICS**

Physics

Lab(15PHYL17/27) Viva  
Questions:

EXPERIMENTS: 1. Black  
box experiment;  
Identification of  
unknown passive  
electrical components  
and determine the  
value of Inductance  
and Capacitance 2.  
Series and parallel LCR  
Circuits (Determination  
of resonant frequency

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Resonance  
Experiment And  
Answers  
and quality factor) 3.  
I-V Characteristics of  
Zener Diode.

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

Viva Voce. Resources.  
Feedback. 1) What  
type of vibrations is  
produced in the air  
column in resonance  
tube? Longitudinal  
stationary waves. None  
of these. Plane waves.  
... What is the purpose  
of obtaining resonating

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Resonance  
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Answers

length in resonance  
column experiment? To  
find the wavelength of  
sound.

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

...

VIVA Questions with  
Answers Dept.of  
Physics, HPPC Govt.  
2015 First Grade  
College Challaker  
-577522 6-16 3. What  
is the value of Z in LCR  
series circuit at

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Resonance

resonance?  $Z = R$  4.

Experiment And  
Answers  
What is the resonance  
frequency? The

frequency of applied  
AC at which resonance  
takes place or current  
is maximum. 5.

Expression for  
resonance frequency?

$$\omega = \frac{1}{\sqrt{LC}} \dots$$

### **VIVA Questions with Answers - WordPress.com**

This set of Microwave  
Engineering Multiple  
Choice Questions &

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Answers (MCQs)

focuses on "Series and  
Parallel Resonant

Circuits". 1. In a series  
LCR circuit, at  
resonance point the  
energy stored in the  
inductor and capacitor  
in the form of magnetic  
and electric energies  
are equal.

## **Series & Parallel Resonant Circuits Questions and Answers ...**

23. The impedance and

# Acces PDF Viva Question Series Resonance

quality factor of a RLC series circuit at  $\omega = 10^7$  rad/sec are  $100 + j0$  and  $100$  respectively. Find the values of R, L and C. 24. What is anti resonance? In RLC parallel circuit, the current is minimum at resonance whereas in series resonance the current is maximum. Therefore the parallel resonance is called anti-resonance. 25.

**Important Short**

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Resonance  
**Questions and  
Answers: Resonance  
and ...**

Physics Lab Viva

Questions. 29. 30. 31.  
32. 33. 34. 35. 36. 37.  
38. 39. 40. 41. 42. 43.  
44. 45. 46. 47.

**Physics Lab Viva  
Questions by  
ramesh kumar -  
Issuu**

at which resonance  
occurs. 5. Select  
appropriate values of  
inductor, resistor and

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capacitor for the  
experiment. 6 Theory:  
Definitions: An LCR  
circuit is an electrical  
circuit consisting of a  
resistor (R), an inductor  
(L), and a capacitor (C),  
connected in series or  
in parallel.

### **To study the resonance condition of a series LCR circuit.**

At resonance, that  
difference will be zero,  
and only R will limit the

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Resonance  
Experiment and  
Answers

current flow in the circuit. The graph to the right shows normalized values of current through a series RLC circuit at frequencies ranging from 0.01 times the resonant frequency, to 100 times that frequency.

## **Series LCR Circuits (Theory) : Electric Circuits Virtual ...**

Experiment 10 ~ RLC  
Series circuit

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## Resonance Experiment And Answers

Resonance in an RLC  
Series Circuit

Objective: 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.

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

Answers  
Extra Questions----- 19.  
Two metallic wires A and B are connected in parallel. Wire A has length  $L$  and radius  $R$  wire B has a length  $2L$  and radius  $2r$ . Compute the ratio of the total resistance of parallel combination and resistance of wire A.

\_\_\_\_\_ Viva help for  
Optics Experiments

**Physics Practical**

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**Questions-2019**

Answer: A super-mesh exists when an ideal current source appears between two meshes of an electric circuit. In such a situation, like super-node, mesh equations are written for the meshes involved and added giving a single equation. Again, there would be one less equation than the number of variables

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(mesh currents) and hence a constraint equation is needed.

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

Experiments in Physics

- SERIES AND

PARALLEL RESONANT

CIRCUIT Indian

Academy of Sciences.

... VTU | Physics Cycle I

Physics Lab | Parallel

LCR Resonance -

Duration: 0:58.

The College Boy

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16,357 ...

Experiment And  
**Experiments in  
Physics - SERIES**

**AND PARALLEL  
RESONANT CIRCUIT**

OBJECTIVES 1. Verify  
the relationship  
between voltage and  
current in an ac circuit  
at resonance 2.

Observe the current  
characteristic both for  
series and parallel  
circuit at resonance

APPARATUS/EQUIPMEN  
T (Series Resonance)

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Answers

$R1 = 100 - 24W - 5\%$   $L1$

$= 10mH$   $C2 = 0.01^{\circ}F$   
(Parallel Resonance)

$R1 = 2.2 k. - 14W - 5\%$

$R2 = 100 - 14W - 5\%$   $L1$   
 $= 10mH$   $C2 = 0.01F$

FIGURE L1 Vp C1 R1

Figure 8.3: Schematic  
Diagram ...

## **An Experiment About The Resonance Circuit (Series ...**

11. The Series RLC

Resonance Circuit

Introduction Thus far

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## Resonance

we have studied a circuit involving a (1) series resistor  $R$  and capacitor  $C$  circuit as well as a (2) series resistor  $R$  and inductor  $L$  circuit. In both cases, it was simpler for the actual experiment to replace the battery and switch with a signal generator producing a square wave.

### **11. The Series RLC Resonance Circuit**

For the Love of Physics

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Resonance  
Experiment and  
Answers

- Walter Lewin - May  
16, 2011 - Duration:  
1:01:26. Lectures by  
Walter Lewin. They will  
make you ♥ Physics.  
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