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15 Electronics Objective

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QUESTIONS FOR BASIC

ELECTRONICS LAB PART 1 Viva

~~voce pn junction diode~~

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~~explanation in hindi/conceptual answer for pn junction diode#1~~

Zener Diodes: Characteristics

\u0026 Working Principle MCQ

Rectifiers *EDC VIVA Quiz # 184*

(Analog Electronics - Zener Diode)

Zener Diode Viva Questions With

ZENER DIODE LAB VIVA Questions

:-1. What is a zener diode? Zener diode is a p-n junction diode specially designed for operation in the breakdown region in reverse bias condition. 2. Define what is zener voltage? The voltage at which the zener diode breaks down is called the zener voltage. 3. What is meant by the temperature coefficient?

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Questions and Answers Pdf ...

Zener Diode Multiple Choice Questions Answers; 41. In a Zener diode with high breakdown voltage. A. Both P and N are heavily doped. B. Both P and N are lightly doped. C. Either P or N is lightly doped. D. None of the above

Zener Diode Multiple Choice Questions Answers ...

Zener Diode Characteristics Experiment Questions: Draw the reverse characteristics of zener diode and determine its breakdown voltage. Viva Questions: 1. What are break down diodes or zener diodes? Diodes which are designed with adequate power dissipation capabilities to operate in the break down region are

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Answers Pdf gas called as break down or zener diodes.

Exp No:1 Diode characteristics

Experiment Questions: Viva ...

Viva Questions: 1. What is the difference between p-n Junction diode and zener diode? Ans: A zener is designed to operate stably in reverse breakdown, which is designed to be at a low voltage, between 3 volts and 200 volts. The breakdown voltage is specified as a voltage with a tolerance, such as 10 volts $\pm 5\%$, which means the breakdown voltage (or operating voltage) will be between 9.5 volts and 10.5 volts.

Electronic Devices and Circuits

Lab Notes: Zener Diode ...

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Answers Pdf by Resources. Feedback.

1) The value of reverse current after the zener breakdown is called? Forward current. Zener current. Direct current. ... What is true about the breakdown voltage in a Zener diode? It is approximately constant. It equals the electric current times the resistance. It destroys the diode.

Zener Diode (Viva Voce) : Class 12 : Physics : Amrita ...

(ii) If the zener diode is short [See Fig. 10 (ii)], you will measure V_0 as 0V. The same problem could also be caused by a shorted load resistor ($= 5\text{k}\Omega$) or an opened source resistor ($= 1\text{k}\Omega$). The only way to tell which device has failed is to remove the resistors and check them with an ohmmeter. If

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the resistors are good, then zener diode is bad.

Solved Problems On Zener Diode - Electronics Post

15) How the width of the depletion region in the reverse biased diode varies with the impurity concentration? 16). How the value of the potential barrier depends on the amount of doping of the semiconductor? 17). Why the silicon diode is preferred compare to germanium diode? 18). Under what condition a zener diode behaves like an ordinary p-n junction diode? 19). What is the main application of a zener diode? 4.

Physics Lab (15PHYL 17/27) Viva Questions

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(ii) Zener diode. [All India 2010 c]

Ans. Circuit diagram of illuminated photo diode in reverse bias is shown below:

26. Write the main use of the (i) photo diode (ii) Zener diode [All India 2010 c]

Ans. Main use of photo diode In demodulation of optical signal and detection of optical signal. Main use of Zener diode As DC voltage regulator.

Important Questions for CBSE Class 12 Physics ...

When the V_z is greater than 8 volts in a Zener diode, avalanche breakdown occurs because there is an isolation of electrons and holes. Avalanche Breakdown
Avalanche breakdown is defined as the process of applying a high voltage which increases the

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Answers Pdfgas
number of free electrons in the semiconductors and insulating materials.

Which Breakdown Occurs In Zener Diode? - BYJU'S

5. In Zener diode, the breakdown is due to Zener, has a doping (A) Lowest (B) Moderate (C) High (D) Low. Answer. Answer: (C) High. 6. In a Zener diode (A) Negative resistance characteristic exists (B) Forward voltage rating is high (C) Sharp breakdown occurs at a low reverse voltage (D) All of the above. Answer

300+ TOP MCQs on Zener Diode and Answers 2020

A Zener Diode, also known as a breakdown diode, is a heavily doped semiconductor device that

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is designed to operate in the reverse direction. When the voltage across the terminals of a Zener diode is reversed and the potential reaches the Zener Voltage (knee voltage), the junction breaks down and the current flows in the reverse direction.

Zener Diode - Explanation, Working, Applications, Circuit ...

6. Nature of graph for reverse has been mentioned in question 4. 7. Material used can be Silicon, germanium, selenium. 8. i) Zener diode operates in both modes. A P-N junction diode can get destroyed if it is used in reverse biased heavily. ii) Zener diode is sharply doped and P-N junction diode is moderately doped.

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VIVA QUESTIONS:[1] What is a P-N junction diode?12] In ...

Viva Voce. Resources. Feedback.

1) The value of reverse current after the zener breakdown is called? Forward current. Direct current. Zener current. ... What is true about the breakdown voltage in a Zener diode? It is approximately constant. It equals the electric current times the resistance. It decreases when electric current increases.

Zener Diode (Viva Voce) : Class 12 : Physics : Amrita ...

Zener Diode Voltage Regulators S Bharadwaj Reddy June 3, 2017
December 12, 2018 Zener Diodes can be used to produce a stabilised voltage output with low

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under varying load current conditions.

zener diode as voltage regulator viva questions Archives ...

VIVA VOCE QUESTIONS -

SEMICONDUCTORS Q.1. What is a semiconductor ? Ans. It is a substance with conduction properties between metals and insulators. ... The reverse

breakdown voltage of zener diode is called zener voltage. Q.20. Give an application of zener diode ?

Ans. It is used as a voltage regulator.

VIVA VOCE QUESTIONS -
SEMICONDUCTORS

iii) The Dynamic forward resistance of Zener Diode is _____

iv) The Static reverse resistance

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of Zener Diode is _____ v) The Dynamic reverse resistance of Zener Diode is _____ VIVA

QUESTIONS: 1. What type of temperature Coefficient does the zener diode have? 2. If the impurity concentration is increased, how the depletion width effected? 3. Does ...

ELECTRONIC DEVICES & CIRCUITS LAB

Viva questions: 1Q. What is semiconductor material? 2Q. What is the difference between intrinsic and extrinsic semiconductor? 3Q. What are trivalent and pentavalent impurities? 4Q. Tell names at least three most used tri- and pentavalent impurities? 5Q. What is the depletion region of how it is

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