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QUESTIONS ON PN  
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48

Instrumentation



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## Zener Diode

### Interview Questions

Questions and  
Answers || most  
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in an interview

PN junction  
Interview

Questions and  
Answers 2019

Part-1 | PN  
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Services the  
characteristic

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## Zener Diode

### curve of zener diode pn junction diode (reading) |

physics

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Solved Problems  
on the Zener  
Diode **Zener Diode**

**(viva voice)**

~~Field~~

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## Zener Diode

### Questions and

Answers 2019

Part 2 | Field

Instrumentation

Instrumentation

Interview

Preparation Tips

*Expt No 3*

*Characteristics*

*of Zener diode*

*and design a*

*Simple Zener*

*voltage*

*regulator*

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**Zener Diode**  
**Characteristics**

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## **in Forward and Reverse Bias**

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ZENER DIODE

CHARACTERISTICS

EXPERIMENT 2018

**Sample Interview**

**Practice -**

**Questions and**

**Answers | Part 1**

What is a Zener

Diode? -

Electronics

Basics 15

Electronics

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## Zener Diode

### Objective Questions

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Basic Part-1 |

Electrical Engg

In Hindi | **Basic**

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*Zener diode ||*

*zener diode*

*characteristics*

*|| bsc physics*

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EXPECTED VIVA  
VOICE QUESTIONS  
FOR BASIC  
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PART 1 Viva voce  
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diode  
explanation in  
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answer for pn  
junction diode#1~~  
Zener Diodes:

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VIVA Quiz # 184

(Analog  
Electronics -  
Zener Diode)  
*Zener Diode Viva*  
*Questions With*  
ZENER DIODE LAB

VIVA Questions  
:-1. What is a  
zener diode?



# Read Free 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

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Viva Questions  
the zener  
voltage. 3. What  
is meant by the  
temperature  
coefficient?

*50 TOP ZENER  
DIODE LAB VIVA  
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:-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

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diode breaks  
down is called  
the zener  
voltage. 3.

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Zener Diode*

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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.

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*Zener Diode  
Multiple Choice  
Questions  
Answers ...*

Zener Diode  
Characteristics  
Experiment  
Questions: Draw  
the reverse  
characteristics  
of zener diode

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## Zener Diode

### Viva Questions

and determine its break down 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



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Zener Diode  
region are  
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

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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

# Read Free Zener Diode

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.

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## Zener Diode

*Devices and*  
*Circuits Lab*  
*Notes: Zener*  
*Diode ...*

Viva Voce.

Resources.

Feedback. 1) The value of reverse current after the zener breakdown is called? Forward current. Zener current. Direct

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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.

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*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

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Viva Questions  
With Answers  
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by a shorted load resistor (= 5k?) or an opened source resistor (= 1 k?). The only way to tell which device has failed is to remove the resistors and check them with an ohmmeter. If the resistors

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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



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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

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## Zener Diode

### Viva Questions

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*  
*(ii) Zener diode.*

# Read Free 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

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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 ...*

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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

# Read Free Zener Diode

applying a high voltage which increases the number of free electrons in the semiconductors and insulating materials.

*Which Breakdown Occurs In Zener Diode? - BYJU'S*

5. In Zener diode, the

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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

# Read Free Zener Diode 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,



# Read Free Zener Diode

is a heavily doped semiconductor device that is designed to operate in the reverse direction. When the voltage across the terminals of a Zener diode is reversed and the potential

Read Free  
Zener Diode  
reaches the  
Zener Voltage  
(knee voltage),  
the junction  
breaks down and  
the current  
flows in the  
reverse  
direction.

*Zener Diode -  
Explanation,  
Working,  
Applications,*  
*Page 42/54*

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## Zener Diode

### 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

# Read Free Zener Diode Viva Questions

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.

VIVA

QUESTIONS : [ 1 ]

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*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. ...

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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.

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*Zener Diode*  
(Viva Voce) :

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Zener Diode

Voltage

Regulators S

Bharadwaj Reddy

June 3, 2017

December 12,

2018 Zener

Diodes can be

# Read Free Zener Diode

used to produce  
a stabilised  
voltage output  
with low ripple  
under varying  
load current  
conditions.

*zener diode as  
voltage  
regulator viva  
questions  
Archives ...*

VIVA VOCE



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## 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

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## Zener Diode

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

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Zener Diode

Zener Diode

is \_\_\_\_\_ iv) The

Static reverse

resistance of

Zener Diode

is \_\_\_\_\_ v) The

Dynamic reverse

resistance of

Zener Diode

is \_\_\_\_\_ VIVA

QUESTIONS: 1.

What type of

temperature

Coefficient does

# Read Free Zener Diode

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

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## Zener Diode

### 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

# Read Free Zener Diode Viva Questions With Answers

used tri- and pentavalent impurities? 5Q.

What is the depletion region of how it is formed?

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