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VU Answer

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Which of the following is not basic SI unit

Answer (Please select your correct option)

VuAnswers.com

Ampere

Henry

correct

Second

Kelvin

Made by: Waqar Siddhu

An element with 6 protons and 6 neutrons has atomic no. value

Answer (Please select your correct option)

VuAnswers.com

6

correct

12

18

8

Made by: Waqar Siddhu

If we connect n inductances in series, total inductance will be

Answer (Please select your correct option)

VuAnswers.com

reciprocal of combined effect of all these inductances

sum of individual inductance

correct

product of all these

sum of first and last inductance

Made by: Waqar Siddhu

With high voltage, the Current can have a Low value when there is

Answer (Please select your correct option)

VuAnswers.com

High resistance

correct

Low resistance

Constant resistance

No resistance

Made by: Waqar Siddhu

Using superposition theorem, for a circuit containing independent sources, any remaining voltage source is

Answer (Please select your correct option)

VuAnswers.com

- remain same
- made zero by replacing them by open circuit
- made zero by replacing them by capacitor
- made zero by replacing them by short circuit

correct

Made by: Waqar Siddhu

For proper working of a clamper, time constant of the circuit should be

Answer (Please select your correct option)

VuAnswers.com

Large

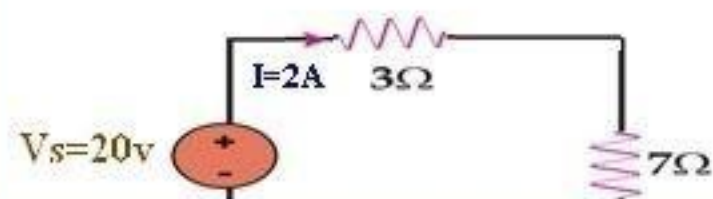
Small

Equal to signal time period

Greater than 5 times the signal time -period

Made by: Waqar Siddhu

For the given figure, Power dissipated through voltage source is



Answer (Please select your correct option)

VuAnswers.com

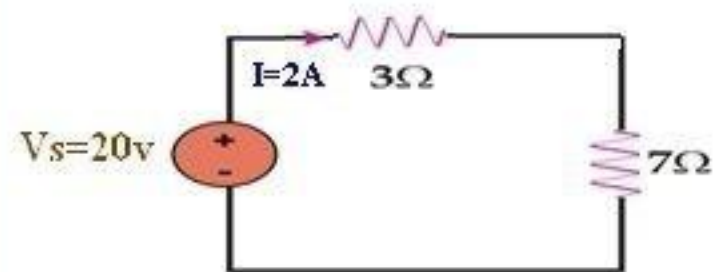
20w

40w

80w

10w

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

20w

40w

80w

10w

Made by: Waqar Siddhu

In source transformation, a current source can be converted into voltage source if

Answer (Please select your correct option)

VuAnswers.com

current source lies in parallel to a resistance R

correct

current source lies in series to a resistance R

two current sources are in series

current and voltage source lie in parallel

Made by: Waqar Siddhu

In thevenin's theorem , while calculating thevenin's resistance, R_{th}

Answer (Please select your correct option)

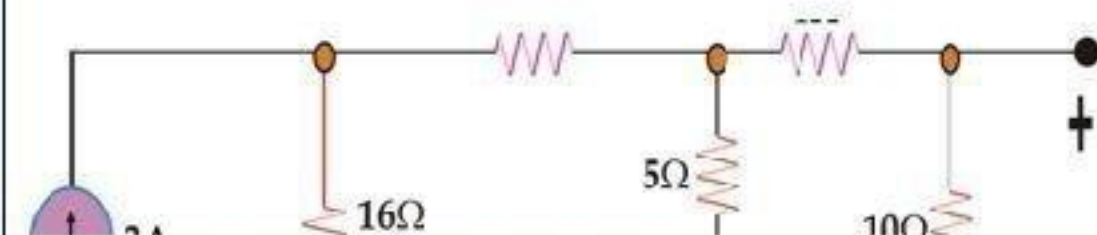
VuAnswers.com

- just open circuit current source
- Short circuit the current source and open circuit the voltage source
- open circuit the current source and short circuit the voltage source
- insert the load

correct

Made by: Waqar Siddhu

In order to find R_{th} (Thevenin's Resistance), which one is true from the given below options.



Answer (Please select your correct option)

VuAnswers.com

open circuit 3A and short circuit 12v

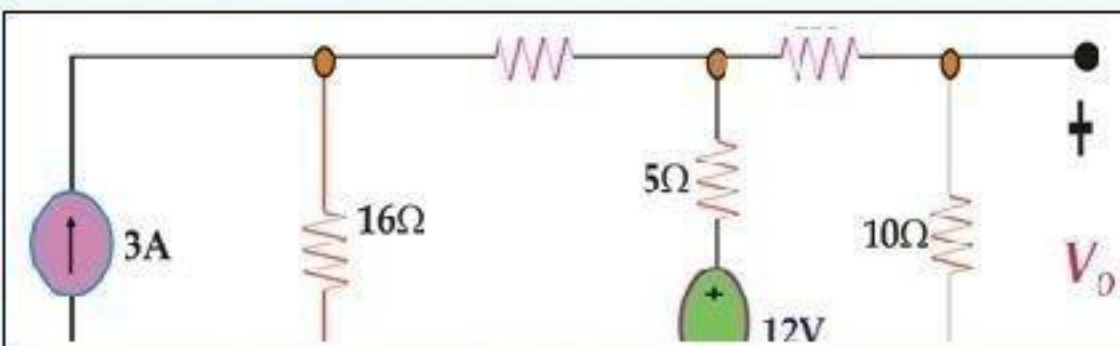
correct

open circuit 12v and short circuit 3A

open circuit both sources

just remove 10 ohm

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

open circuit 3A and short circuit 12v

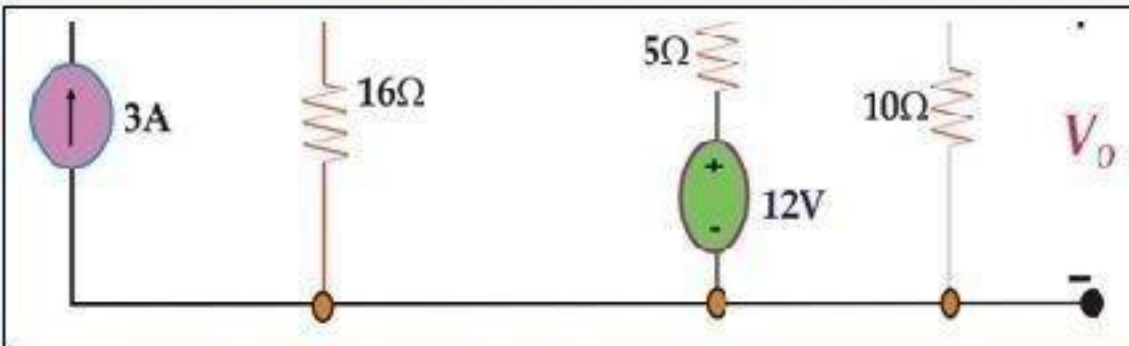
correct

open circuit 12v and short circuit 3A

open circuit both sources

just remove 10 ohm

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

open circuit 3A and short circuit 12v

correct

open circuit 12v and short circuit 3A

open circuit both sources

just remove 10 ohm

Made by: Waqar Siddhu

In Norton's theorem , while calculating R_n

Answer (Please select your correct option)

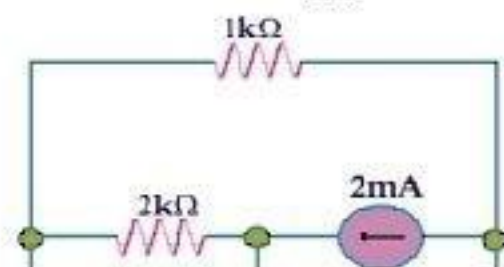
VuAnswers.com

- Short circuit the current source and open circuit the voltage source
- open circuit the current source and short circuit the voltage source
- insert the load
- just open circuit current source

correct

Made by: Waqar Siddhu

For the given circuit, if Norton's current I_{Nor} is 5A and Norton's Resistance R_N 10 ohm. To find I_o , the Norton's equivalent circuit will have



Answer (Please select your correct option)

VuAnswers.com

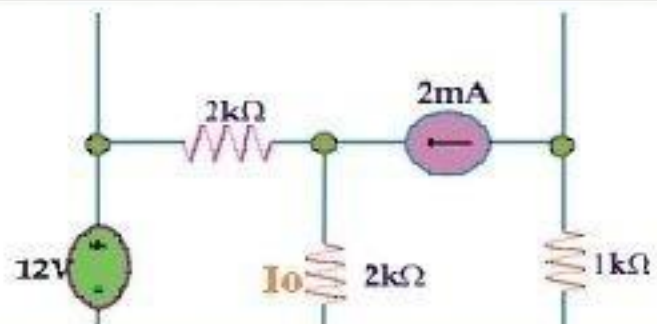
I_{Nor} and R_N in parallel of $1K\Omega$

I_{Nor} and R_N in series of $2K\Omega$

I_{Nor} and R_N in parallel of $2K\Omega$

R_N in parallel of $2K\Omega$

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

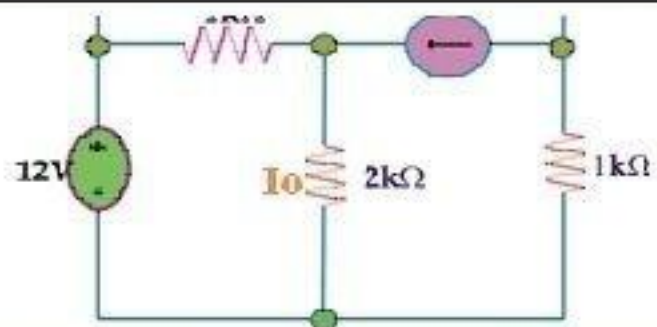
I_{Noc} and R_N in parallel of $1K\Omega$

I_{Noc} and R_N in series of $2K\Omega$

I_{Noc} and R_N in parallel of $2K\Omega$

R_N in parallel of $2K\Omega$

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

I_{Nox} and R_N in parallel of $1K\Omega$

I_{Nox} and R_N in series of $2K\Omega$

I_{Nox} and R_N in parallel of $2K\Omega$

R_N in parallel of $2K\Omega$

Made by: Waqar Siddhu

Thermal ionization in semiconductor results, creating of

Answer (Please select your correct option)

VuAnswers.com

only free electrons

only holes

both free electrons and holes

correct

nothing

Made by: Waqar Siddhu

For a P-N junction under reverse bias

Answer (Please select your correct option)

VuAnswers.com

more forward current flows

no forward current flows

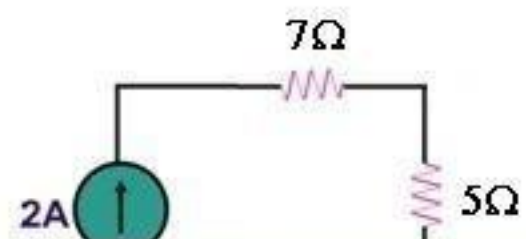
correct

no reverse current flows

infinite reverse current flows

Made by: Waqar Siddhu

Current flowing through 5Ω resistance will be



Answer (Please select your correct option)

VuAnswers.com

1.1A

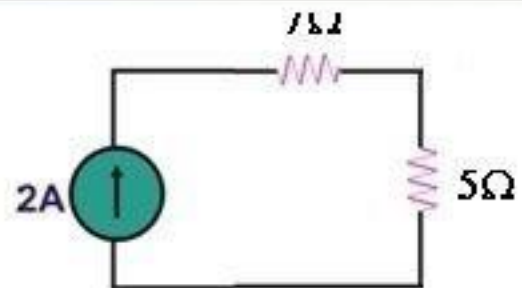
2A

correct

10A

14A

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

1.1A

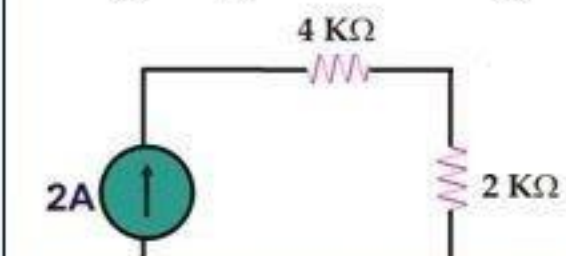
2A

10A

14A

Made by: Waqar Siddhu

In the given fig. Current flowing through $4\text{k}\Omega$ resistance will be



Answer (Please select your correct option)

VuAnswers.com

8A

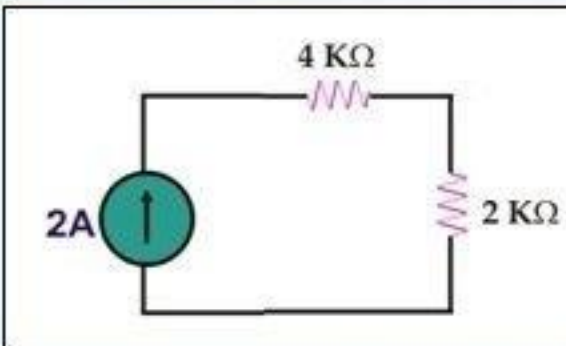
2A

correct

4A

0.6A

Made by: Waqar Siddhu



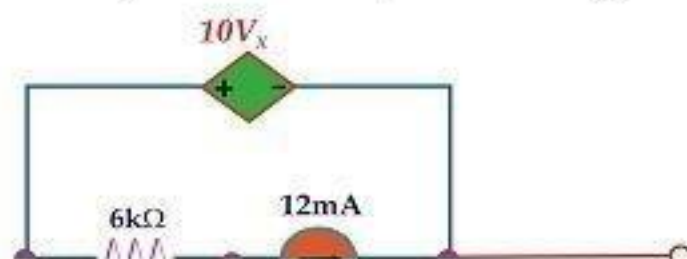
Answer (Please select your correct option)

VuAnswers.com

 8A 2A 4A 0.6A

Made by: Waqar Siddhu

In the given circuit, the value of dependent voltage source is



Answer (Please select your correct option)

VuAnswers.com

V_x

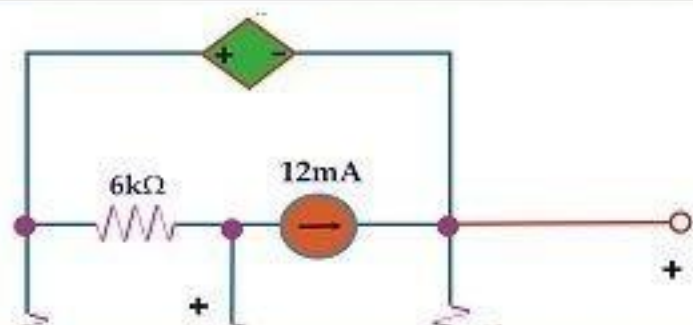
V_o

correct

$10V_x$

$12mA$

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

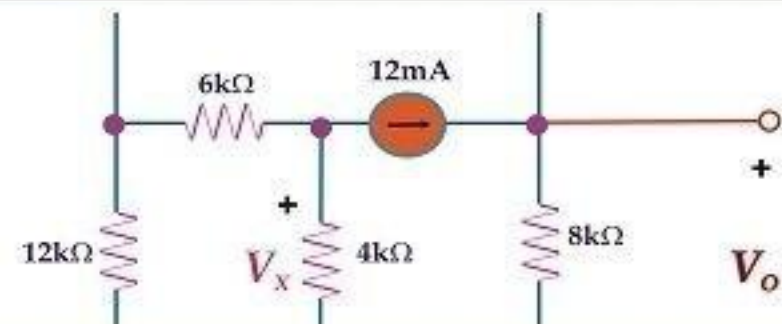
V_x

V_o

$10V_x$

$12mA$

Made by: Waqar Siddhu

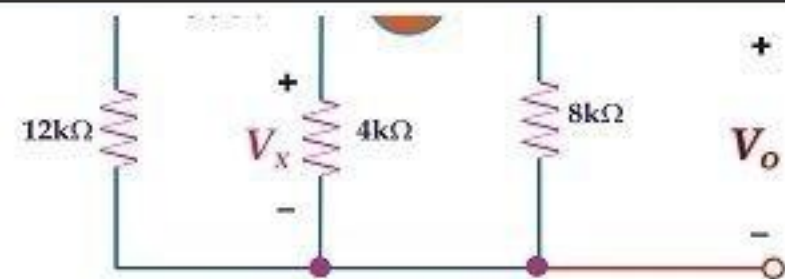


Answer (Please select your correct option)

VuAnswers.com

 V_x V_o $10V_x$ 12mA

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

V_x

V_o

$10V_x$

12mA

Made by: Waqar Siddhu

In a loop analysis , which of the following is true?

Answer (Please select your correct option)

VuAnswers.com

No. of equations to be written is equal to No. of loops

correct

No. of equations to be written is equal to 1 minus No. of loops

No. of equations to be written is equal to twice the No. of loops

No. of equations to be written is equal to half the No. of loops

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When ideal diode acting as short circuit

Answer (Please select your correct option)

VuAnswers.com

V is maximum

V is half of applied voltage

V=0

correct

no current flows

Made by: Waqar Siddhu

AC or dynamic resistance of diode is due to

Answer (Please select your correct option)

VuAnswers.com

- changing value V_D and I_D of diode by applying DC voltage
- fixed value V_D and I_D of diode by applying DC voltage
- changing value V_D and I_D of diode by applying varying input signal
- fixed resistance of diode by applying AC voltage

Made by: Waqar Siddhu

The primary and secondary winding of transformer are

Answer (Please select your correct option)

VuAnswers.com

physically touched

physically isolated

correct

touched with conductor

largely separated

Made by: Waqar Siddhu

For secondary turns of 10 and primary turns of 20, turn ratio is

Answer (Please select your correct option)

VuAnswers.com

20:20

10:20

10:10

20:10

correct

Made by: Waqar Siddhu

When the turn ratio of a transformer is 5 and primary ac voltage is 10v, the secondary voltage is

Answer (Please select your correct option)

VuAnswers.com

100v

25v

50v

2v

correct

Made by: Waqar Siddhu

which relation is true for transformer primary and secondary power?

Answer (Please select your correct option)

VuAnswers.com

$V_1V_2=I_1I_2$

$V_2I_2=V_1I_1$

$V_2I_1=V_1I_2$

$I_2I_1=V_2V_1$

Made by: Waqar Siddhu

The PIV of a half wave rectifier is

Answer (Please select your correct option)

VuAnswers.com

$V_{(2pk)}$

correct

$2V_m$

$V_m/2$

$3V_m$

Made by: Waqar Siddhu

As diode conducts the electrical current only in one direction, hence it is consider as a

Answer (Please select your correct option)

VuAnswers.com

Switch

correct

Amplifier

Capacitor

Inductor

Made by: Waqar Siddhu

Which stage of a power supply uses a Zener as the main component? Select one of the given choice.

Answer (Please select your correct option)

VuAnswers.com

Rectifier

Voltage divider

Regulator

correct

Filter

Made by: Waqar Siddhu

Leakage current of a junction diode

Answer (Please select your correct option)

VuAnswers.com

Decrease with more temperature

correct

Is due to majority carriers

Depends on the method of its fabrication

Is the range of mA or micro Ampere

Made by: Waqar Siddhu

In a properly biased NPN transistor most of the electrons from the emitter

Answer (Please select your correct option)

VuAnswers.com

Recombine with holes in base

Recombine with emitter itself

Pass through the base to the collector

Are stopped by the junction barrier

correct

Made by: Waqar Siddhu

The current flow across the base-emitter junction of a p-n-p transistor consists of

Answer (Please select your correct option)

VuAnswers.com

Mainly electrons

Equal numbers of holes and electrons

Mainly holes

correct

The leakage current

Made by: Waqar Siddhu

Which of the following is not correct statement.

Answer (Please select your correct option)

VuAnswers.com

- Proton is 1840 times heavier than electron.
- The total number of electrons in the outer rings must equal to the number of protons in the nucleus in a neutral atom
- The electrons in an atom are bound to the protons in the nucleus by the electromagnetic force
- As a whole an atom is not neutral particle

correct

Made by: Waqar Siddhu

How many electron charges are there in the practical unit of one coulomb.

Answer (Please select your correct option)

VuAnswers.com

4.5x10⁶

6.5x10¹⁶

6.25x10¹⁸

correct

1.9x10⁻¹⁹

Made by: Waqar Siddhu

If magnitude of the current is controlled by input current the source is called

Answer (Please select your correct option)

VuAnswers.com

Current controlled current source

correct

Current controlled voltage source

Voltage controlled voltage source

Voltage controlled current source

Made by: Waqar Siddhu

Current divider is used when

Answer (Please select your correct option)

VuAnswers.com

Two or more resistances are in series of a voltage source

Two or more resistances are in parallel of a voltage source

Two or more resistances are in series of a current source

Two or more resistances are in parallel of a current source

correct

Made by: Waqar Siddhu

Leakage current of semiconductor diode is caused by

Answer (Please select your correct option)

VuAnswers.com

chemical energy

heat energy

barrier voltage

doping impurity

correct

Made by: Waqar Siddhu

Distance or link between two nodes is called

Answer (Please select your correct option)

VuAnswers.com

Branch

correct

Loop

node

super mesh

Made by: Waqar Siddhu

Using superposition theorem, for a circuit containing independent sources, any remaining current source is

Answer (Please select your correct option)

VuAnswers.com

replaced by short circuit

made zero by replacing them by open circuit

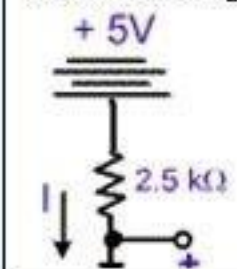
correct

replaced by close circuit

replaced by capacitor

Made by: Waqar Siddhu

Considering diode to be ideal , current flowing through resistance will be



Answer (Please select your correct option)

VuAnswers.com

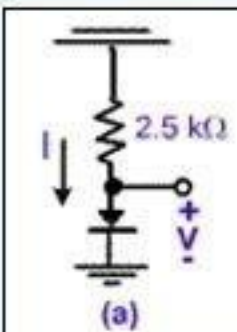
5mA

2mA

zero ampere

2.5mA

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

5mA

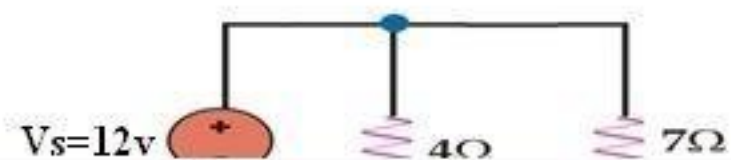
2mA

zero ampere

2.5mA

Made by: Waqar Siddhu

Across which resistance more voltage is dropped



Answer (Please select your correct option)

VuAnswers.com

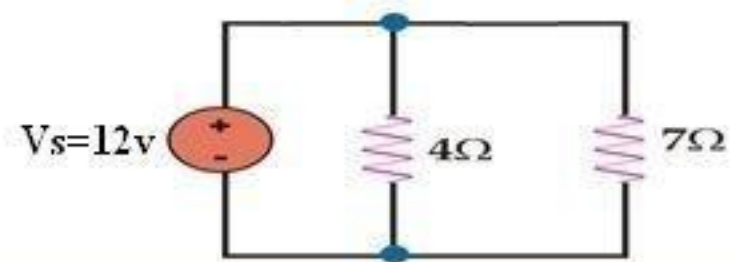
4Ω

7Ω

same across both

no voltage drop

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

4Ω

7Ω

correct

same across both

no voltage drop

Made by: Waqar Siddhu

Through which resistance least current will flow



Answer (Please select your correct option)

VuAnswers.com

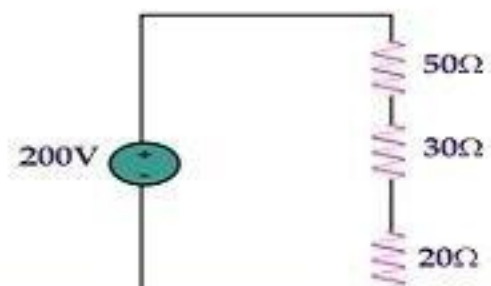
50Ω

30Ω

20Ω

same through all resistance

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

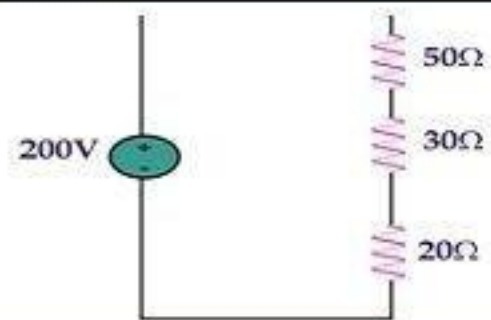
50Ω

30Ω

20Ω

same through all resistance

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

50Ω

30Ω

20Ω

same through all resistance

correct

Made by: Waqar Siddhu

Which of the following statement is not correct?

Answer (Please select your correct option)

VuAnswers.com

An open circuit has zero current.

A short circuit has excessive current.

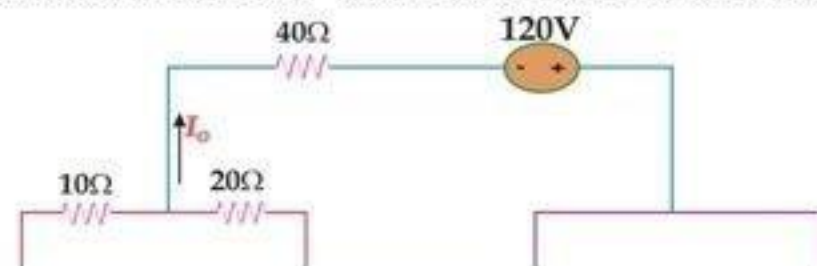
An open circuit and a short circuit have opposite effects on resistance and current.

A closed circuit do not allow flow of current

correct

Made by: Waqar Siddhu

How many sources are dependent sources in given circuit?



Answer (Please select your correct option)

VuAnswers.com

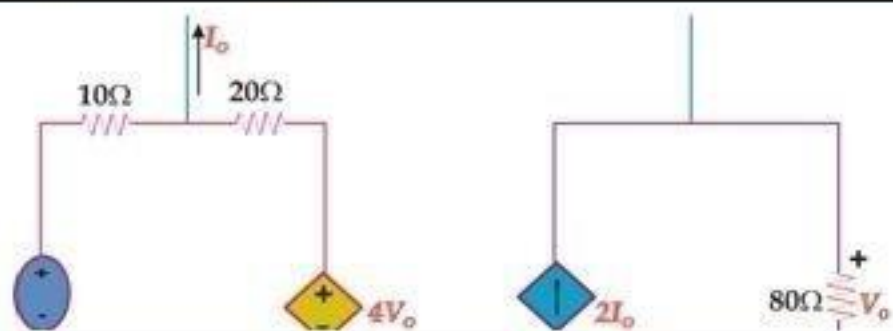
3

2

4

1

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

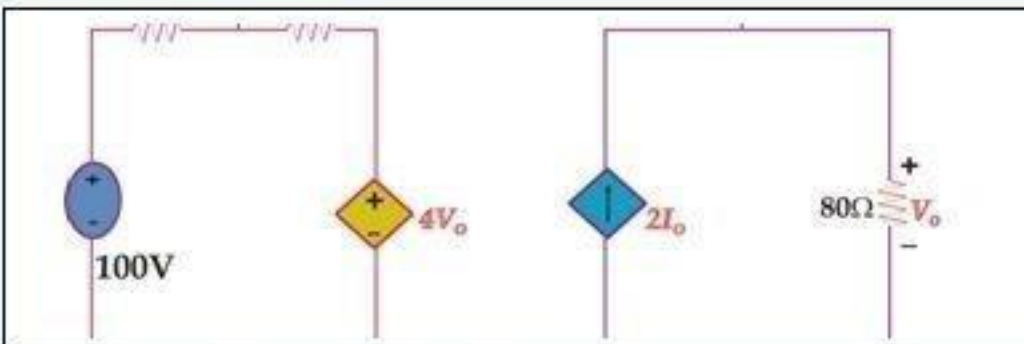
3

2

4

1

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

3

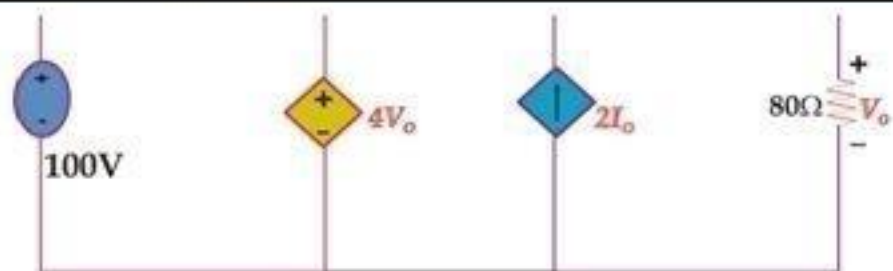
2

correct

4

1

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

3

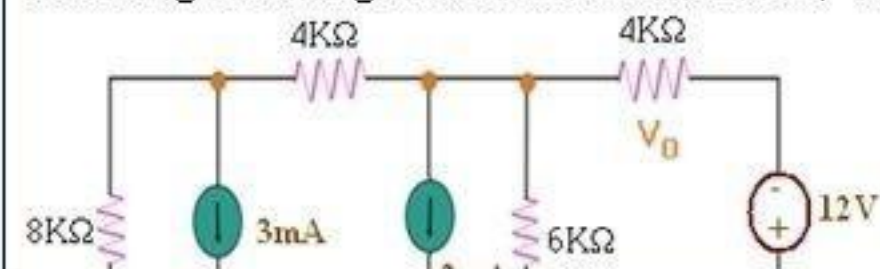
2

4

1

Made by: Waqar Siddhu

Converting 12v voltage source into current source, value of converted current source will be



Answer (Please select your correct option)

VuAnswers.com

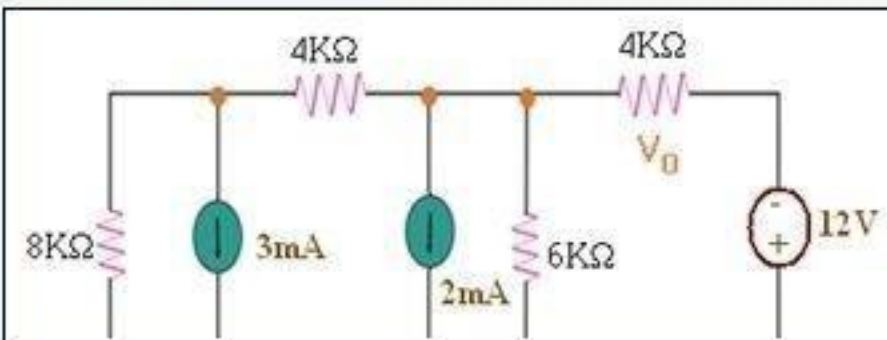
3mA

2mA

48mA

1mA

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

3mA

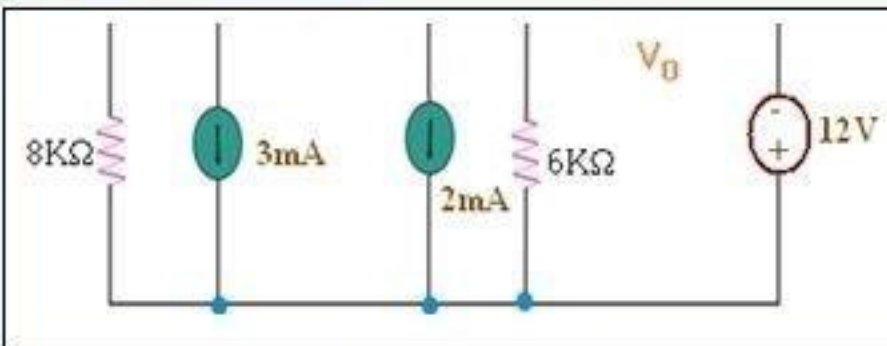
correct

2mA

48mA

1mA

Made by: Waqar Siddhu



Answer (Please select your correct option)

VuAnswers.com

3mA

2mA

48mA

1mA

Made by: Waqar Siddhu

For a circuit containing dependent voltage source, if Thevenin's voltage V_{th} is 10v and I_{sc} is 2A, Thevenin's Resistance R_{th} will be

Answer (Please select your correct option)

VuAnswers.com

10 Ω

20 Ω

5 Ω

0.5 Ω

Made by: Waqar Siddhu

For a circuit containing dependent voltage source, if Thevenin's voltage V_{th} is 15v and I_{sc} is 5A, Thevenin's Resistance R_{th} will be

Answer (Please select your correct option)

VuAnswers.com

6 Ω

3 Ω

75 Ω

5 Ω

Made by: Waqar Siddhu

In a Norton's theorem ,norton's current I_{nor} is calculated

Answer (Please select your correct option)

VuAnswers.com

- at open terminals of the open circuit
- by short circuiting the open terminal of the circuit
- across the load
- any where

Made by: Waqar Siddhu

Semiconductor element in pure form is called

Answer (Please select your correct option)

VuAnswers.com

extrinsic

P type

intrinsic

N type

Made by: Waqar Siddhu

For reverse biased condition of P-N junction, which of the following condition is applied?

Answer (Please select your correct option)

VuAnswers.com

- Ve polarity to both N electrode and P electrode
- +Ve polarity to both N electrode and P electrode
- +Ve polarity to N electrode and -Ve polarity to P electrode
- +Ve polarity to P electrode and -Ve polarity to N electrode

Made by: Waqar Siddhu

The characteristics of ideal diode when forward biased are

Answer (Please select your correct option)

VuAnswers.com

diode will have maximum current flow

diode will have no voltage drop across its terminals

all of these

Diode will have minimum resistance

Made by: Waqar Siddhu

A transformer is used for

Answer (Please select your correct option)

VuAnswers.com

- dc voltage
- ac voltage
- both ac and dc voltage
- none of these

Made by: Waqar Siddhu

For secondary turns of 10 and primary turns of 20, turn ratio is

Answer (Please select your correct option)

VuAnswers.com

20:20

10:20

10:10

20:10

Made by: Waqar Siddhu

The depletion region of a semiconductor diode is due to

Answer (Please select your correct option)

VuAnswers.com

Absence of current carriers

Reverse biasing

Forward biasing

Crystal doping

Made by: Waqar Siddhu

The PIV of a half wave rectifier is

Answer (Please select your correct option)

VuAnswers.com

$V_{(2pk)}$

$2V_m$

$V_m/2$

$3V_m$

Made by: Waqar Siddhu

The leakage current of semiconductor diode is caused by

Answer (Please select your correct option)

VuAnswers.com

Chemical energy

Barrier voltage

Heat energy

Doping impurity

Made by: Waqar Siddhu

As diode conducts the electrical current only in one direction, hence it is consider as a

Answer (Please select your correct option)

VuAnswers.com

Switch

Amplifier

Capacitor

Inductor

Made by: Waqar Siddhu

A general purpose diode is more likely to suffer Avalanche breakdown rather than Zener breakdown because

Answer (Please select your correct option)

VuAnswers.com

Its leakage current is small

It has weak covalent bonding

It is lightly doped

It has low reverse resistance

Made by: Waqar Siddhu

The base region of a p-n-p transistor is

Answer (Please select your correct option)

VuAnswers.com

- Very thin and heavily doped with holes
- Very thin and heavily doped with electrons
- Very thin and lightly doped with holes
- Very thin and lightly doped with electrons

Made by: Waqar Siddhu

In a properly biased NPN transistor most of the electrons from the emitter

Answer (Please select your correct option)

VuAnswers.com

Recombine with holes in base

Recombine with emitter itself

Pass through the base to the collector

Are stopped by the junction barrier

Made by: Waqar Siddhu

In normal /active operation, the junctions of a p-n-p transistor are:

Answer (Please select your correct option)

VuAnswers.com

Both forward biased

Base-emitter forward biased and base collector reverse biased

Both reverse biased

Base-collector forward biased and base-emitter reverse biased

Made by: Waqar Siddhu

For a transistor, if value of α is 0.9, and the emitter current (I_E) is 4mA, then

Answer (Please select your correct option)

VuAnswers.com

The base current is approximately 4.4mA

The collector current (I_C) is approximately 3.6mA

The collector current is approximately 4.4mA

The base current is approximately 3.6mA

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