Question No : 1 of 26 Marks: 1 (Budgeted Time 1 Min)

In a liquid that is conducting current, the moving charges are

Answer (Please select your correct option)

- Electrons
- Protons
- Neutrons
- Ions

Question No : 2 of 26 Marks: 1 (Budgeted Time 1 Min)

Current through a short circuit is

Answer (Please select your correct option)

- zero
- minimum
- Maximum
- leakage current

Question No : 3 of 26 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- reciprocal of combined effect of all these inductances
- sum of individual inductance
- product of all these
- sum of first and last inductance

Question No : 4 of 26 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- High resistance
- Low resistance
- Constant resistance
- No resistance

Question No : 5 of 26 Marks: 1 (Budgeted Time 1 Min)

The internal resistance of an ideal voltage source is

Answer (Please select your correct option)

- Maximum
- Minimum
- Zero
- Infinity

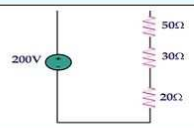
Question No : 6 of 26 Marks: 1 (Budgeted Time 1 Min)

Total current flowing through this circuit will be

Answer (Please select your correct option)

- 5A
- 2A
- 3A
- 0A

Question No : 6 of 26 Marks: 1 (Budgeted Time 1 Min)



Answer (Please select your correct option)

- 5A
- 2A
- 3A
- 0A

Made By: Waqar Siddhu

Question No : 7 of 26 Marks: 1 (Budgeted Time 1 Min)

In a series circuit, if R is increased double, voltage drop across it will be

Answer (Please select your correct option)

- increase four time
- same
- double
- half

Made By: Waqar Siddhu

Question No : 8 of 26 Marks: 1 (Budgeted Time 1 Min)

If R_1 and R_2 resistances are connected in series and V_s is source voltage , then voltage drop across R_1 can be calculated by which of the following formula.

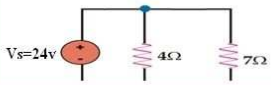
Answer (Please select your correct option)

- $V_1=R_1xV_s/R_1+R_2$
- $V_1=R_2xV_s/R_1+R_2$
- $V_1=R_1xR_2/V_s$
- $V_1=R_1xV_s/R_1$

Made By: Waqar Siddhu

Question No : 9 of 26 Marks: 1 (Budgeted Time 1 Min)

For the given circuit, Voltage drop across 4Ω resistance is

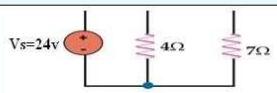


Answer (Please select your correct option)

- 6v
- 24v
- 8.72v
- 15.27v

Made By: Waqar Siddhu

Question No : 9 of 26 Marks: 1 (Budgeted Time 1 Min)



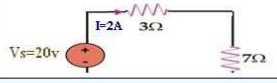
Answer (Please select your correct option)

- 6v
- 24v
- 8.72v
- 15.27v

Made By: Waqar Siddhu

Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)

For the given figure, Power dissipated through voltage source is

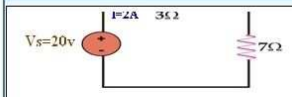


Answer (Please select your correct option)

- 20w
- 40w
- 80w
- 10w

Made By: Waqar Siddhu

Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)



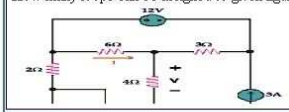
Answer (Please select your correct option)

- 20w
- 40w
- 80w
- 10w

Made By: Waqar Siddhu

Question No : 11 of 26 Marks: 1 (Budgeted Time 1 Min)

How many loops can be assigned to given figure?

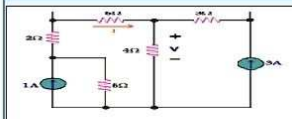


Answer (Please select your correct option)

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

Question No : 11 of 26 Marks: 1 (Budgeted Time 1 Min)



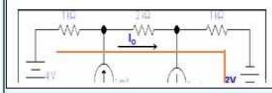
Answer (Please select your correct option)

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

Question No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)

If value of I is 2.2mA, what will be the value of I_0?

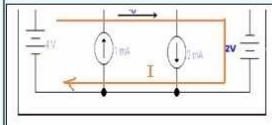


Answer (Please select your correct option)

- 2mA
- 1mA
- 2.2mA
- 10mA

Made By: Waqar Siddhu

Question No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)



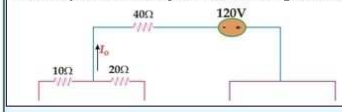
Answer (Please select your correct option)

- 2mA
- 1mA
- 2.2mA
- 10mA

Made By: Waqar Siddhu

Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)

How many sources are dependent sources in given circuit?

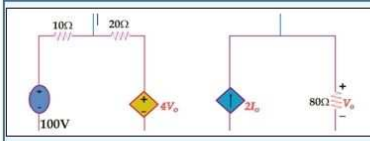


Answer (Please select your correct option)

- 3
- 2
- 4
- 1

Made By: Waqar Siddhu

Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)

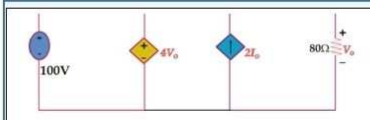


Answer (Please select your correct option)

- 3
- 2
- 4
- 1

Made By: Waqar Siddhu

Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)



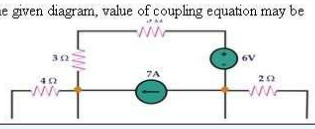
Answer (Please select your correct option)

- 3
- 2
- 4
- 1

Made By: Waqar Siddhu

Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min)

For the given diagram, value of coupling equation may be

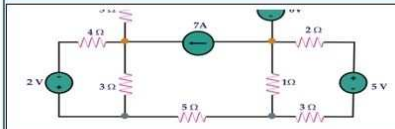


Answer (Please select your correct option)

- $V_1-V_2= 6V$
- $V_1-V_2= 2V$
- $I_a - I_b = 7A$
- $V_1-V_2= 7V$

Made By: Waqar Siddhu

Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min)



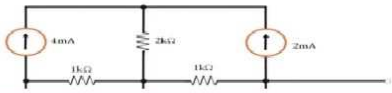
Answer (Please select your correct option)

- V_1-V_2= 6V
- V_1-V_2= 2V
- I_a - I_b = 7A
- V_1-V_2= 7V

Made By: Waqar Siddhu

Question No : 15 of 26 Marks: 1 (Budgeted Time 1 Min)

Which current source will be used for super mesh?

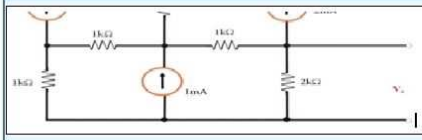


Answer (Please select your correct option)

- 4mA
- 2mA
- 1mA
- 2mA and 4mA

Made By: Waqar Siddhu

Question No : 15 of 26 Marks: 1 (Budgeted Time 1 Min)



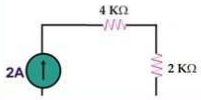
Answer (Please select your correct option)

- 4mA
- 2mA
- 1mA
- 2mA and 4mA

Made By: Waqar Siddhu

Question No : 16 of 26 Marks: 1 (Budgeted Time 1 Min)

In the given fig. Current flowing through 4kΩ resistance will be

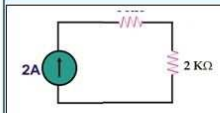


Answer (Please select your correct option)

- 0.6A
- 8A
- 2A
- 4A

Made By: Waqar Siddhu

Question No : 16 of 26 Marks: 1 (Budgeted Time 1 Min)



Answer (Please select your correct option)

- 0.6A
- 8A
- 2A
- 4A

Made By: Waqar Siddhu

Question No : 17 of 26 Marks: 1 (Budgeted Time 1 Min)

The algebraic sum of the voltages around any loop is zero, is statement of

Answer (Please select your correct option)

- Kirchhof, s voltage law
- Kirchhof, s current law
- Ohm, s law
- Farady law

Made By: Waqar Siddhu

Question No : 18 of 26 Marks: 1 (Budgeted Time 1 Min)

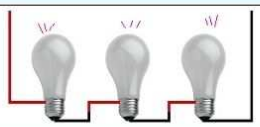
Three bulbs are connected in series of a battery, what would happen if any one bulb is opened.

Answer (Please select your correct option)

- half of current will flow
- same current will flow
- no current will flow
- 2/3 current will flow

Made By: Waqar Siddhu

Question No : 18 of 26 Marks: 1 (Budgeted Time 1 Min)



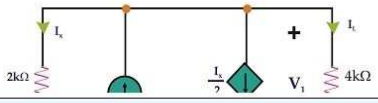
Answer (Please select your correct option)

- half of current will flow
- same current will flow
- no current will flow
- 2/3 current will flow

Made By: Waqar Siddhu

Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)

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

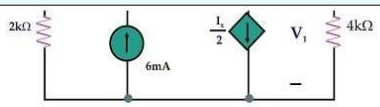


Answer (Please select your correct option)

- 6mA
- Ix
- $\frac{Ix}{2}$
- IL

Made By: Waqar Siddhu

Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)



Answer (Please select your correct option)

- 6mA
- Ix
- $\frac{Ix}{2}$
- IL

Made By: Waqar Siddhu

Question No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

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

Made By: Waqar Siddhu

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

If

$$A = \begin{bmatrix} 1/4 & 1/2 \\ -1/6 & 1/3 \end{bmatrix}$$

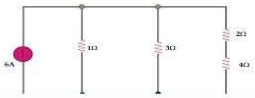
What will be Adj(A)?

Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

How many loops are possible for given circuit.

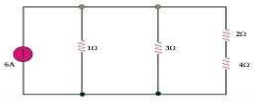


Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

How many loops are possible for given circuit.

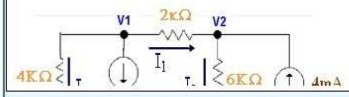


Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

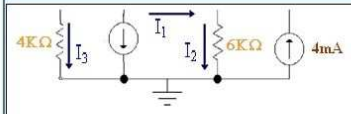
For the given figure, write only formula to find I_1, I_2, and I_3.



Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

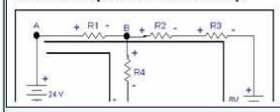


Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

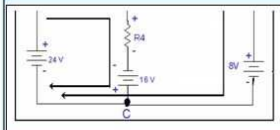
Write KVL equation for the outer loop.



Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

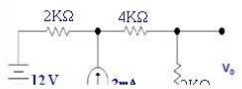


Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

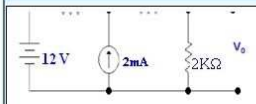
Calculate Vo using KVL for given circuit.



Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

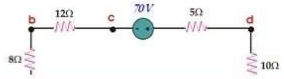


Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

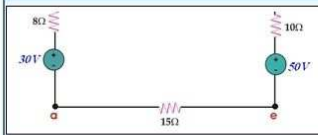
Find V_{da} for the given circuit, if 1A current is flowing through circuit.



Answer (Please click here to Add Answer)

Made By: Waqar Siddhu

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)



Answer (Please click here to Add Answer)

Made By: Waqar Siddhu