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

Which battery applies a greater potential difference?

Answer ( Please select your correct option )

- 12v
- 1.5v
- 10v
- 0.5v



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

If we connect n inductances in parallel the combined effect of all these inductances is

Answer ( Please select your correct option )

- equal to the sum of individual inductance.
- reciprocal of combined effect of all these inductances
- product of all
- sum of first and last



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

Voltage is measured in

Answer ( Please select your correct option )

- ohm
- farad
- volt
- power

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

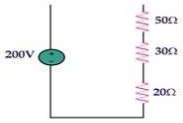
Through which resistance least current will flow


Answer ( Please select your correct option )

- 50Ω
- 30Ω
- 20Ω
- same through all resistance

Made By: Waqar Siddhu

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




Answer ( Please select your correct option )

- 50Ω
- 30Ω
- 20Ω
- same through all resistance

Made By: Waqar Siddhu

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

Resistance of an open circuit is

Answer ( Please select your correct option )

- Moderate
- Infinitely high
- Low
- Zero

Made By: Waqar Siddhu

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

When two resistances are connected in series

Answer ( Please select your correct option )

- They must both have same resistance value
- The voltage across each must be the same.
- They must have different resistance value.
- There is only one path for current for both resistances

Made By: Waqar Siddhu

Question No : 7 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.

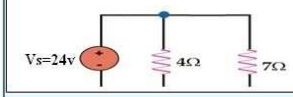
Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

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

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

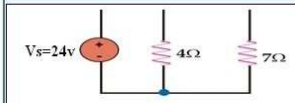



Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

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



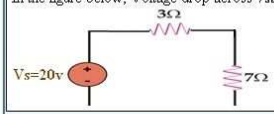

Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

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

In the figure below, Voltage drop across 7Ω will be

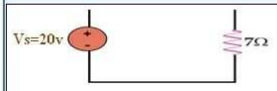



Answer ( Please select your correct option )

- 20v
- 14v
- 6v
- 10v

Made By: Waqar Siddhu

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



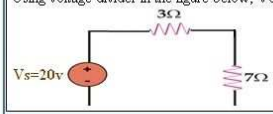

Answer ( Please select your correct option )

- 20v
- 14v
- 6v
- 10v

Made By: Waqar Siddhu

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

Using voltage divider in the figure below, Voltage drop across 3Ω will be

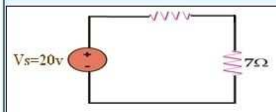



Answer ( Please select your correct option )

- 20v
- 14v
- 6v
- 7v

Made By: Waqar Siddhu

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



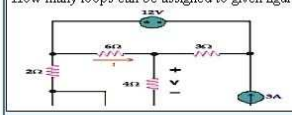

Answer ( Please select your correct option )

- 20v
- 14v
- 6v
- 7v

Made By: Waqar Siddhu

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

How many loops can be assigned to given figure?

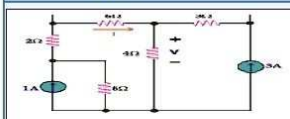



Answer ( Please select your correct option )

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

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



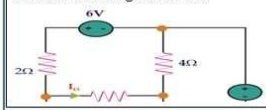

Answer ( Please select your correct option )

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

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

The value of Ia for given circuit is

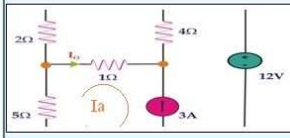



Answer ( Please select your correct option )

- Ia=Io
- Ia= 3A
- Ia= -3A
- Ia=6v

Made By: Waqar Siddhu

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

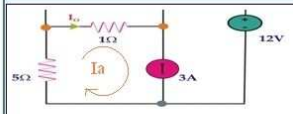



Answer ( Please select your correct option )

- Ia=Io
- Ia= 3A
- Ia= -3A
- Ia=6v

Made By: Waqar Siddhu

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



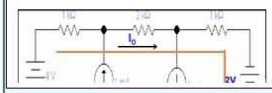

Answer ( Please select your correct option )

- Ia=Io
- Ia= 3A
- Ia= -3A
- Ia=6v

Made By: Waqar Siddhu

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

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

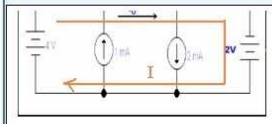



Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

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



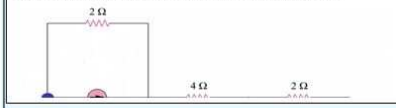

Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

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

How many loop equations can be written for this circuit?

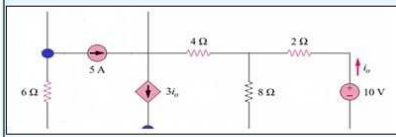



Answer ( Please select your correct option )

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

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

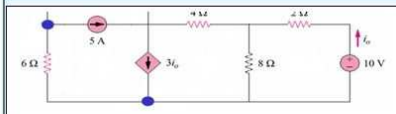



Answer ( Please select your correct option )

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

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



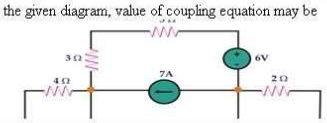

Answer ( Please select your correct option )

- 2
- 4
- 3
- 5

Made By: Waqar Siddhu

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

For the given diagram, value of coupling equation may be

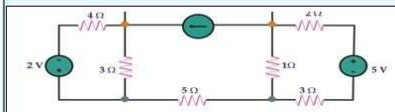



Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

Question No : 15 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 : 16 of 26 Marks: 1 (Budgeted Time 1 Min)

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

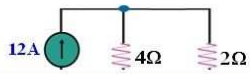
Answer ( Please select your correct option )

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

Made By: Waqar Siddhu

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

Using current divider rule, current flowing through 4Ω is

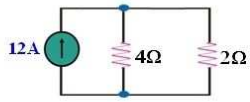



Answer ( Please select your correct option )

- 4A
- 8A
- 12A
- 3A

Made By: Waqar Siddhu

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



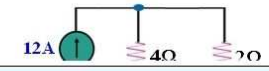

Answer ( Please select your correct option )

- 4A
- 8A
- 12A
- 3A

Made By: Waqar Siddhu

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

In the fig. below current flowing through 2Ω is

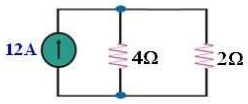



Answer ( Please select your correct option )

- 4A
- 8A
- 12A
- 6A

Made By: Waqar Siddhu

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



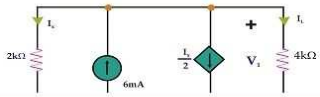

Answer ( Please select your correct option )

- 4A
- 8A
- 12A
- 6A

Made By: Waqar Siddhu

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

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

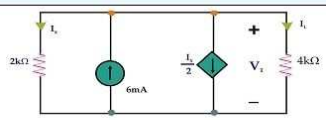



Answer ( Please select your correct option )

- Ix
- Ix/2
- 6mA
- IL

Made By: Waqar Siddhu

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



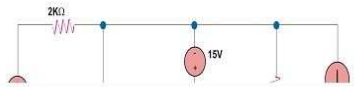

Answer ( Please select your correct option )

- Ix
- Ix/2
- 6mA
- IL

Made By: Waqar Siddhu

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

How many loop/mesh equations we can write for the given circuit?

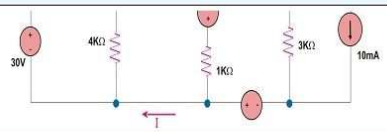



Answer ( Please select your correct option )

- 3
- 4
- 5
- 1

Made By: Waqar Siddhu

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

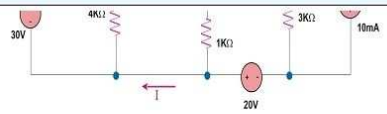



Answer ( Please select your correct option )

- 3
- 4
- 5
- 1

Made By: Waqar Siddhu

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



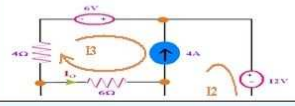

Answer ( Please select your correct option )

- 3
- 4
- 5
- 1

Made By: Waqar Siddhu

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

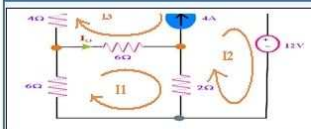
Just write kVL equation for mesh 1




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

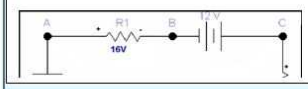



Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

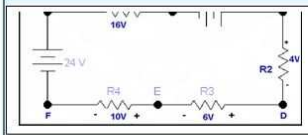
Calculate Voltage $V_{AE}$




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

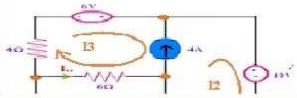



Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

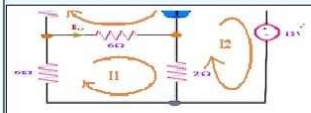
Write KVL equation for super mesh.




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

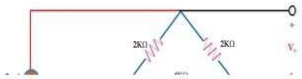



Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

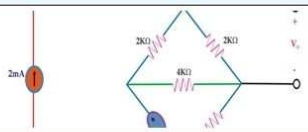
Just label the diagram by any method and mention the value of source current in the circuit.




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

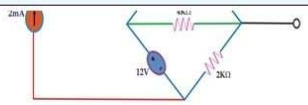
Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

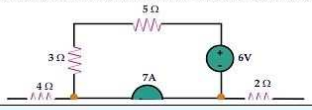



Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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

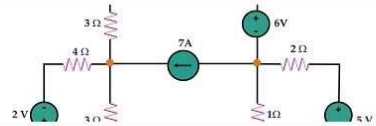
Identify and label each mesh otherwise you will lose your marks. Label circuit diagram properly. Write **KVL equation for super mesh**.




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

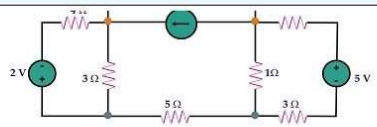
Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)




Answer ( Please click here to Add Answer )

Made By: Waqar Siddhu

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




Answer ( Please click here to Add Answer )

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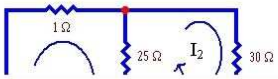
Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

For given figure, write KVL equation for Mesh 1 and 2.




Answer ( Please click here to Add Answer )

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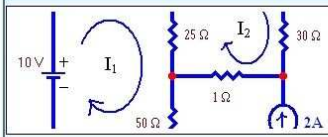


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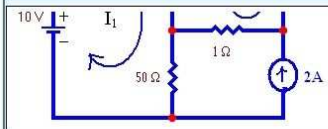


Answer ( Please click here to Add Answer )

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