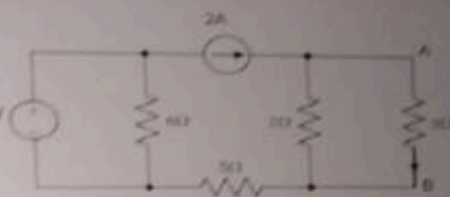


Question No: 05

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The value of Norton's resistance across terminals AB in the given circuit is



Options

- ☐ 7Ω
- ☐ 3Ω
- ☒ 2Ω
- ☐ 11Ω

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Question No. 03

Multiple Choice ( Select 1 out of 4 options, for the question below. )

An Electrical circuit having resistors and voltage source, If the value of the resistors are doubled then voltage across each resistor is

Options:

- ☒ Remains unchanged
- ☐ Increased to four time
- ☐ Halved
- ☐ Doubled

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Question No: 01

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Find the power consumption for the circuit having voltage and current waveforms as follows  $V = 100 \sin 314t$  Volts and  $I = 10 \sin (314t + \pi/3)$  A

Options

- ☐ 250 watt
- ☒ 500 watt
- ☐ None of the option is correct
- ☐ 1000 watt

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Question No: 01

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Find the power consumption for the circuit having voltage and current waveforms as follows  $V = 100 \sin 314t$  Volts and  $I = 10 \sin (314t + \pi/3)$  A

Options

- ☐ 250 watt
- ☒ 500 watt
- ☐ None of the option is correct
- ☐ 1000 watt

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Question No. 03

Multiple Choice ( Select 1 out of 4 options, for the question below. )

An Electrical circuit having resistors and voltage source, If the value of the resistors are doubled then voltage across each resistor is

Options

- ☒ Remains unchanged
- ☐ Increased to four time
- ☐ Halved
- ☐ Doubled

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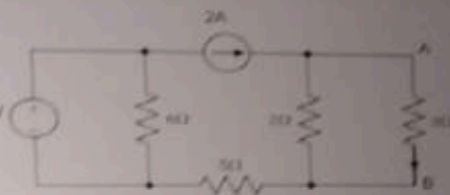
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Question No: 05

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The value of Norton's resistance across terminals AB in the given circuit is



Options

- ☐ 7Ω
- ☐ 3Ω
- ☒ 2Ω
- ☐ 11Ω

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Question No: 02

Multiple Choice ( Select 1 out of 4 options, for the question below. )

A transformer has a 1:7 turn ratio and a secondary coil load resistance of  $490\ \Omega$ . The value of load resistance as seen by the source is

Options

- ☒  $10\ \Omega$   
☐  $70\ \Omega$   
☐  $490\ \Omega$   
☐  $13\ \Omega$

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Question No: 04

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The Difference between MCB and MCCB are

Options

- ☐ Both MCCB have higher rating then MCB and MCCB have adjustable trip Characteristics
- ☐ MCCB have higher rating then MCB
- ☐ None of the option is correct
- ☒ MCCB have adjustable trip Characteristics

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Question No: 07

Multiple Choice ( Select 1 out of 4 options, for the question below )

Which of the following generator will have negligible terminal voltage while running on no-load?

## Options

- ☐ Short Shunt Generator
- ☐ Compound Generator
- ☒ Series generator
- ☐ Shunt Generator

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Question No: 06

Multiple Choice ( Select 1 out of 4 options, for the question below )

A  $6\ \Omega$  resistor, an inductor with a reactance of  $120\ \Omega$ , and a capacitor with a reactance of  $120\ \Omega$  are in series across a  $60\ \text{V}$  source. The circuit is at resonance. The voltage across the inductor is

Options

- ☐ 60 V  
☐ 600 V  
☒ 1200 V  
☐ 800 V

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Question No: 08

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The value of slip for induction motor running at synchronous speed is.

Options

- ☐ None of the option is correct
- ☒ 0
- ☐ 1
- ☐ 0.5

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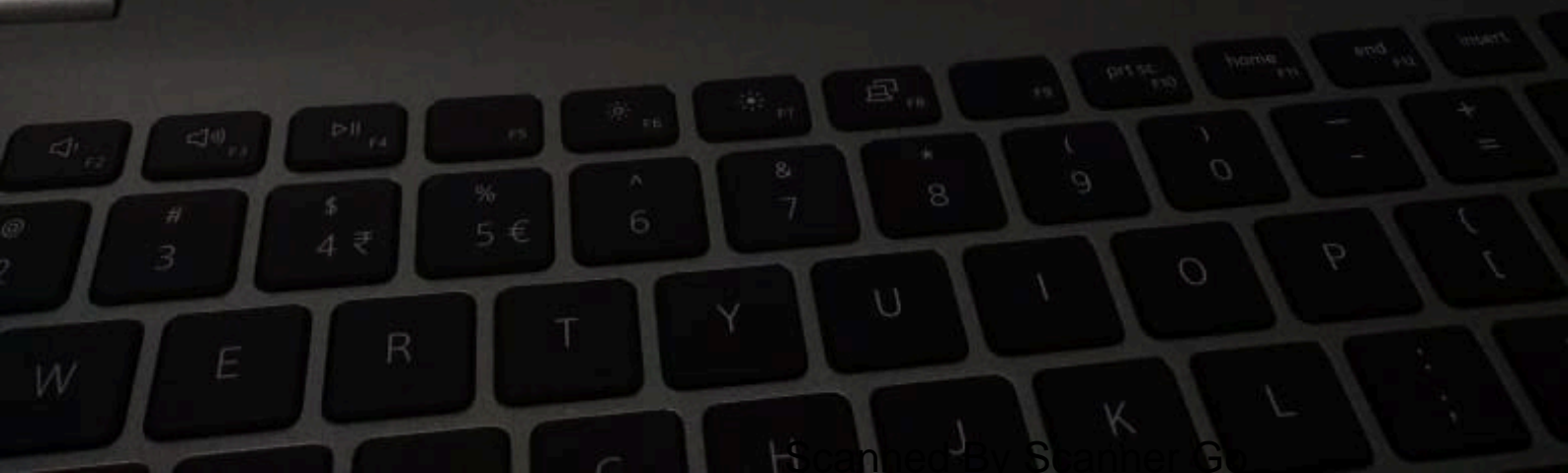
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Question No: 11

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Capacitive reactance is more when

Options

- ☐ Capacitance is less and frequency of supply is more
- ☐ Capacitance is more and frequency of supply is less
- ☐ Capacitance is more and frequency of supply is more
- ☒ Capacitance is less and frequency of supply is less

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Question No: 10

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The insulating material used in cables should

## Options

- ☐ be non-inflammable
- ☒ all of the option is correct
- ☐ be non-hygroscopic
- ☐ be acid proof

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Question No: 09

Multiple Choice ( Select 1 out of 4 options, for the question below. )

Three resistances  $R$ ,  $2R$  and  $3R$  are in delta. Their equivalent star is

## Options

- ☐  $R/3$ ,  $R/2$  and  $R$
- ☒  $R$ ,  $2R$  and  $3R$
- ☐  $R/3$ ,  $R$  and  $3R$
- ☐  $R/2$ ,  $R$  and  $2R$

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Question No: 12

Multiple Choice ( Select 1 out of 4 options, for the question below. )

An ideal voltage source and ideal current source

### Options

- ☐ both have infinite internal resistance
- ☒ have zero and infinite internal resistance respectively
- ☐ have infinite and zero internal resistance respectively
- ☐ both have zero internal resistance

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Question No: 13

Multiple Choice (Select 1 out of 4 options, for the question below.)

The ratio of active power to apparent power is known as

## Options

- ☐ Demand Factor
- ☒ Power factor
- ☐ Peak Factor
- ☐ Form factor

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Question No: 14

Multiple Choice ( Select 1 out of 4 options, for the question below. )

The peak factor for full wave rectifier is

Options

- ☐ 1.57
- ☐ 1.154
- ☐ 1.11
- ☒ 1.414

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Question No: 15

Multiple Choice ( Select 1 out of 4 options, for the question below. )

A 6 pole AC generator rotates at 1200 rpm. The frequency of AC voltage in Hz will be

Options

- ☐ 60 Hz
- ☐ 100 Hz
- ☐ 120 Hz
- ☐ 50 Hz

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