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There is more to practice on **ElectroMath in module 3 Module 3 various subjects** Answers are below!

A series AC circuit consisting of an inductor, resistor and a capacitor is connected across an alternating supply. Which of the following statements is true?

a) The voltage across the resistor leads the voltage across the capacitor by 90dgr.

b) The supply voltage leads the circuit current by a given phase angle.

c) The voltage across the capacitor lags the supply voltage by 90dgr.

The method most often used in overcoming the effect of armature reaction is through the use of

a) interpoles

b)connected series field

c) shaded poles

In the simple d.c. motor if the loop of wire is free to rotate it will do so in

a) An anticlockwise direction

- b) Whichever direction it is given an initial start
- c) A clockwise direction.

The poles of a d.c generator are laminated to

a) A reduce hysterisis losses

- b) Reduce flux losses
- c) Reduce eddy current losses

In a DC motor the voltage induced in the windings as its armature rotates is called

- a) Induced current
- b) Induced EMF
- c) Counter EMF

In an AC circuit, the nearer the phase angle between the applied voltage and current is to 0dgr, the

- a) Power factor approaches unity
- b) Apparent power is almost equal to the reactive power.
- c) True power is almost equal to the reactive power.

A capacitor has Brown, Black and Orange bands. Its value is

a) 10 picofarads

- b) 10 nanofarads
- c) 100 picofarads

A 300 ohm resistor would have a colour code of

- a) Orange, Orange, Brown
- b) Orange, Brown, Black
- c) Orange , Black, Brown

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Electrical Engineering Calculators!

www.discovercircuits.com

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b) The supply voltage leads the circuit current by a given phase angle.

x c) The voltage across the capacitor lags the supply voltage by 90dgr.

Normally ELI the ICE man, but remember in a series circuit the current is the same in all parts of the circuit!

The method most often used in overcoming the effect of armature reaction is through the use of

x a) interpoles

b) connected series field

c) shaded poles

Armature reaction Info on NEETS!

In the simple d.c. motor if the loop of wire is free to rotate it will do so in

- a) An anticlockwise direction
- x b) Whichever direction it is given an initial start
- c) A clockwise direction.

The poles of a d.c generator are laminated to
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x c) Reduce eddy current losses

Eddy Current Info on Wikipedia

In a DC motor the voltage induced in the windings as its armature rotates is called a) Induced current b) Induced EMF **x** c) Counter EMF

Electric Motor Info on Wikipedia

In an AC circuit, the nearer the phase angle between the applied voltage and current is to 0dgr, the **x** a) Power factor approaches unity

- b) Apparent power is almost equal to the reactive power.
- c) True power is almost equal to the reactive power.

Cosine of 0 = 1

A capacitor has Brown, Black and Orange bands. Its value is a) 10 picofarads **x b) 10 nanofarads** c) 100 picofarads

Colour Code Info on Wikipedia

A 300 ohm resistor would have a colour code of a) Orange , Orange, Brown b) Orange , Brown, Black **x c) Orange , Black, Brown**

Resistor calculator

Resistor and Capacitor Colour Code Calculator