Name	Tags	Question Description
		The algebraic sum of the powers in a circuit is equal to zero
19BT20241	Easy	Ans:Kirchoff's Voltage Law and Conservation Of Energy
19BT20241	Easy	Identify which of the following element is a non-linear device
		If the capacitances 20F, 20F are in series, find the equivalent capacitance
19BT20241	Easy	Ans: 10F
		In a linear network consisting of resistors and ideal voltage source, if the value
19BT20241	Easy	of resistors are doubled, then voltage across each resistor Ans:No Change
136120241	Lasy	Ans.ivo change
19BT20241	Easy	Which of the following is true about an ideal Current source?
135120211	Lusy	A voltage source having a voltage of 100 V and internal resistance of 10Ω is
19BT20241	Easy	equivalent to a current source of
		Constant current source is a
		Ans: A constant current source is a power source which provides a constant current to a load, even despite changes and variance in load resistance. In other words, the current which a constant current
19BT20241	Easy	source provides is steady, even if the resistance of the load varies.
		If a resistor R_x is connected between nodes X and Y , R_y between X and Z ,
400720244	_	R _z between Y and Z to form a delta connection, then after transformation to
19BT20241	Easy	star, the resistor at node Y is?
19BT20241	Easy	Identify the law which is going to place a vital role in loop analysis
		Identify the units for conductance
19BT20241	Easy	Ans: Seimens,mho,ohm ⁻¹
10DT20244	Face	What is the phase angle between the voltage and current in case of capacitor
19BT20241	Easy	and mention which one is lagging
19BT20241	Easy	What is the value of (4+3i)-(2+2i) Ans: 2+i
198120241	Lasy	
19BT20241	Easy	Kirchhoff's law is not applicable to circuits with Ans: Distributed parameters
135120241	Lusy	Ans. Distributed parameters
19BT20241	Easy	An electric heater draws 10 A from a 120-V line. The resistance of the heater is:
	,	The number of branches b, number of nodes n, and the number of independent
19BT20241	Easy	loops I in a network are related as:
		A series RLC circuit has R=30 Ω , X_C =50 Ω , and X_L =90 Ω . The impedance of the
19BT20241	Easy	circuit is:
19BT20241	Easy	The Voltage across a capacitor leads the current through it by 90° .
		The imaginary part of impedance is called:
19BT20241	Easy	Ans: Reactance
		A function that repeats itself after fixed intervals is said to be:
19BT20241	Easy	Ans: Periodic Function
		The impedance of a capacitor increases with increase in frequency.
19BT20241	Easy	Ans:False

19BT20241	Moderate	If v_1 =30 sin (ω t+10°) and v_2 =20 sin (ω t+50°). Which of the following statement is true?
196120241	Moderate	Indicate the units for reactive power
19BT20241	Easy	Ans: Volt Amphere Reactive
400,000,44		The product of rms values of current and voltage is called as
19BT20241	Easy	Ans: Apparent Power
19BT20241	Easy	The root mean square value of the voltage is
19BT20241	Easy	The ratio of peak value to the rms value is called as
19BT20241	Easy	What is the phase angle between voltage and current in case of resistor Ans: 0 degrees
19BT20241	Easy	The power factor lies in between Ans: 0 to 1.0
19BT20241	Easy	The power factor of capacitor is
19BT20241	Easy	The power factor is the ratio of power to the power. Ans: Real Power and Apparent Power
		If there are 8 nodes in network, we can get number of equations in the
19BT20241	Easy	nodal analysis.
19BT20241	Easy	The energy stored in the inductor is? Ans: Stored in Magnetic feild
19BT20241	Easy	Impedance is a complex quantity having the real part as and the imaginary part as
19BT20241	Moderate	A 25 Ω resistor has a voltage of 150 sin377 t. Find the corresponding power.
19BT20241	Easy	A practical current source can also be represented as Ans:A practical current source could be represented with a resistor in parallel with an ideal current source.
19BT20241	Easy	Which of the following is true about an ideal voltage source?
19BT20241	Easy	In case of purely capacitive circuit, average power = and θ= Ans: average power = 0 and θ=90
19BT20241	Moderate	A voltage v (t) = $100\sin\omega t$ is applied to a circuit. The current flowing through the circuit is i(t) = $15\sin(\omega t-30^{\circ})$. Find the effective value of voltage.
19BT20241	Difficult	Determine the average power delivered to the circuit consisting of an impedance $Z = 5+j8$ when the current flowing through the circuit is $I = 5 \angle 30^{\circ}$.
19BT20241	Easy	Two ideal voltage sources of unequal output voltages cannot be placed in
130120241	Lusy	Time constant of an inductive circuit
19BT20241	Easy	Ans:Increses with increase of inductance and decrease of resistance
		In a purely inductive circuit if the supply frequency is reduced to 1/2, the current will
19BT20241	Moderate	Ans: Be doubled

		Time constant of a capacitive circuit increases with
19BT20241	Easy	Ans: Increase of capacitance and increase of resistance