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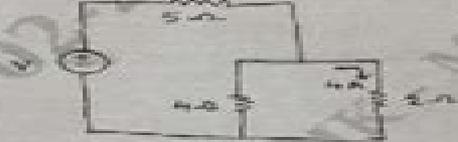
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## First Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Introduction to Electrical Engineering

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. VTU Formula Hand Book is permitted.  
3. M: Marks, L: Bloom's level, C: Course outcomes.*

Module - 1			M	L	C
Q.1	a.	Explain nuclear power generation with the help of neat block diagram.	7	L1	CO1
	b.	In the circuit shown find the power delivered by the source. <div style="text-align: center;">  <p style="text-align: center;">Fig Q.1(b)</p> </div>	7	L3	CO1
	c.	State and explain Ohm's law with its limitations.	6	L1	CO2
<b>OR</b>					
Q.2	a.	State and explain Kirchhoff's current and voltage laws.	7	L1	CO1
	b.	Explain the general structure of electrical power system, using single line diagram.	7	L1	CO1
	c.	Calculate the currents in the network. <div style="text-align: center;">  <p style="text-align: center;">Fig Q.2(c)</p> </div>	6	L3	CO2
<b>Module - 2</b>					
Q.3	a.	Obtain the behavior of voltage, current and power in a pure resistor connected to 1- $\phi$ A.C. supply. Draw the voltage, current and power waveforms.	7	L2	CO2
	b.	A current of average value 18.019A is flowing in a circuit to which a voltage of peak value 141.42V is applied. Determine: i) Impedance in polar form. ii) rms values of voltage and current. iii) Power consumed by the circuit. Assume voltage lags current by 30°.	7	L3	CO2

# Test Paper Question Electrical

**TD Snyder**



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