

**ELECTRICAL CIRCUIT THEORY
MODEL QUESTION PAPER I**

Time: 3 hours

Marks: 75

Note: Part A questions carry each 1 mark and answer any Fifteen questions.
Part B questions carry each 12 marks and answer all questions by selecting either "a" or "b".

PART- A

01. State Ohm's Law
02. State electric flux density.
03. Write the formula for capacitance of a parallel plate capacitor.
04. Define Self inductance.
05. What is a node?
06. Give the current equivalent of voltage source.
07. Write the expression for star to delta transformation
08. State the condition for maximum power transferred from source to load.
09. Define cycle
10. Convert $50 \angle 30^\circ$ into rectangular form.
11. Define form factor
12. Draw the vector diagram for RC series circuit.
13. Define admittance
14. State the condition for series resonance
15. Define dynamic resistance
16. Define 'Q' factor
17. Define balanced load in three phase system
18. Define phase sequence
19. State the relationship between line voltage and phase voltage in star connected system.
20. Write the expression for power factor when the power of a three phase circuit is measured by two wattmeter method

PART – B

21. a. Three resistors 12 ohm, 18 ohm and 36 ohm are connected in parallel. This parallel circuit is connected in series with a resistor 'R'. The whole circuit is connected is supplied at 60 Volt and it is found that power developed in 12 ohm resistor is 48 watts. Determine the value of R and total power. (12)

OR

- b. 1. A circuit consists of two resistors 20 ohm and 30 ohm connected in parallel. They connected in series with a resistor of 15 ohm. If the current through the 15 ohm resistor is 3 A, find the current in the other resistors and supply voltage. (6)

2. Show that $R_i = R_o (1 + \alpha t)$ (6)

22. a. 1. Obtain Thevenin's equivalent circuit at terminals AB of the circuit given below. (6)
2. Reduce the given circuit into a single voltage source by using source transformation. (6)

OR

- b. Find the power dissipated in the 10 Ω resistor using Node-Voltage method (12)

23. a. 1. The alternating current passing through a circuit is given by $141.4 \sin 314.2t$. Find the values of (a) r.m.s current, (b) the frequency (c) the instantaneous value of the current when $t=0.02$ second. (6)

2. From the fundamental principle show that the R.M.S. value of a sinusoidal alternating current is 0.707 times the maximum value. (6)

Electrical Circuit Theory Model Question Paper

G Psacharopoulos



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Electric Circuit Theory and the Operational Calculus John Renshaw Carson, 1926 **Selected Papers ...: Transmission lines** , 1928 **Elementary Electric-circuit Theory** Richard Henry Frazier, 1945 **Journal of Research of the National Institute of Standards and Technology** , 1992 **Electric Circuit Theory** H. Tropper, 1949 *Science Abstracts* , 1922 *Electrical Engineering* , 1922 The Electrical Journal , 1896 *Calendar* University of Allahabad, 1929 *Transactions of the American Institute of Electrical Engineers* American Institute of Electrical Engineers, 1929 Index of current electrical literature Dec 1887 appended to v 5 **The Electrician** , 1884 *Proceedings of the American Institute of Electrical Engineers* , 1925 Vols for 1887 1946 include the preprint pages of the institute's Transactions Journal of the A.I.E.E. American Institute of Electrical Engineers, 1929

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