

Solved Paper 2015

Electrical Engineering (Paper II)

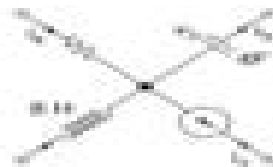
1. (a) Two conductors, one of copper and the other of iron, are connected in parallel and carry equal currents at 30°C . What proportion of current will pass through each, if the temperature is raised to 60°C ? The temperature coefficients of resistance at 0°C are 0.0043°C and 0.0063°C for copper and iron respectively. (10)

- (b) Determine the resistance and the power dissipation of a resistor that must be placed in series with a $50\ \Omega$ resistor across a $220\ \text{V}$ source in order to limit the power dissipation in the $50\ \Omega$ resistor to $200\ \text{watts}$. (10)

- (c) In the network shown in Figure 1, the different currents and voltages are as under:

$$I_1 = 10\ \text{A}, I_2 = 5\ \text{A}, I_3 = 8\ \text{A}$$

Using Kirchhoff's Current Law, find the voltage V_2 . (10)



- (d) In Figure, find the current in the $10\ \Omega$ resistor using Thevenin's theorem. (20)



- (e) A variable air capacitor has 10 movable plates and 11 stationary plates. The area of each plate is $0.002\ \text{m}^2$ and separation between opposite plates is $0.001\ \text{m}$. Determine the maximum capacitance of this variable capacitor. (10)

2. (a) An iron ring has a cross-sectional area of $200\ \text{mm}^2$ and a mean diameter of $20\ \text{cm}$. It is wound with 1000 turns. If the value of relative permeability is 200 , find the total flux set up in the ring. The coil resistance is $500\ \Omega$ and the supply voltage is $220\ \text{V}$. (10)

- (b) Define the following terms: (5+5+5+5)

(i) Coefficient of magnetic coupling

(ii) Self-inductance

(iii) Electromagnetic induction

(iv) Time constant

- (c) A capacitor of $30\ \mu\text{F}$ takes a current of $2\ \text{A}$ when alternating voltage applied across it is $220\ \text{V}$. Calculate:

(i) the frequency of the applied voltage

(ii) the resistance to be connected in series with the capacitor to reduce the current in the circuit to $1\ \text{A}$ at the same frequency. (5+5)

- (d) An RLC series circuit has $R = 50\ \Omega$, $C = 50\ \mu\text{F}$ and a variable inductance. The applied voltage is $220\ \text{V}$ at $100\ \text{rad/sec}$. The inductance is varied till the voltage across resistance is maximum. Under this condition, find the:

(i) value of inductance

(ii) Q-factor

(iii) voltage across resistance, capacitance and inductance (5+5+5)

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