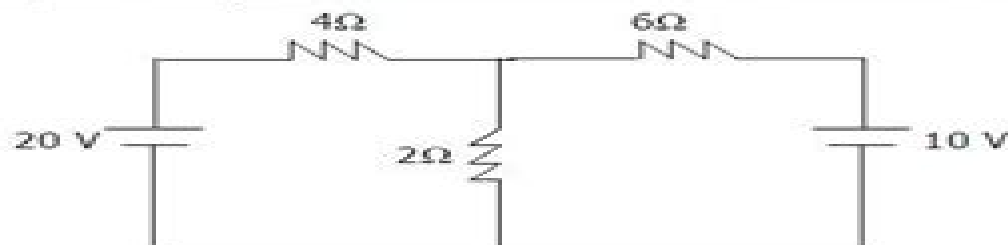


- State any two effects of electric current with two applications of each.
- Using Mesh analysis, calculate the current in the  $2\ \Omega$  resistor in figure Below



- What will be effect on capacitance of a parallel plate Capacitor in the following cases-
  - Plate area doubled;  $\epsilon_r$  and  $d$  constant.
  - $\epsilon_r$  half;  $A$  and  $d$  constant.
- An iron ring with mean circumference 80 cm and cross-sectional area  $10\text{ cm}^2$  is uniformly wound with 500 turns of wire. Determine the current required to set up a flux density of  $1.2\text{ wb/m}^2$  in the ring. Assume relative permeability = 1000 for iron.
- State Faraday's laws of electromagnetic induction and state its any two applications in electrical engineering.
- Two coils having 100 and 200 turns respectively are wound side by side on a closed iron circuit of mean length 250 cm and cross-section  $125\text{ cm}^2$ . Determine the mutual inductance between two coils. Assume relative permeability = 1200 for iron.

**Q.5 Attempt any four of the following:**

**16 Marks**

- State and explain Lenz law.
- Compare statically induced e.m.f. with dynamically induced e.m.f.
- Prove that  $L = N^2 / S$  where  $N$  = number of turns and  $S$  = reluctance
- A cast steel ring with mean circumference 90 cm and cross-sectional area  $100\text{ mm}^2$  is uniformly wound with 800 turns of wire. Determine the current required to set up a flux density of  $1.2\text{ wb/m}^2$  in the ring. Assume relative permeability = 900 for iron.
- Give any four practical applications of an electromagnet.
- A wooden ring of mean diameter 400 mm and cross-sectional area  $400\text{ mm}^2$  is uniformly wound with a coil of 1000 turns which carries a current of 4 A. Determine the self inductance of the coil.

**Q.6 Attempt any four of the following:**

**16 Marks**

- State the difference between cell and battery and list any two types of batteries.

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**M Lipman**



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