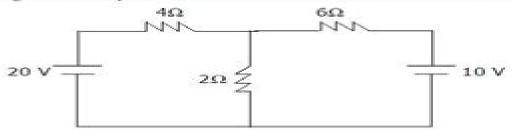
- a) State any two effects of electric current with two applications of each.
- Using Mesh analysis, calculate the current in the 2 Ω resistor in figure Below



What will be effect on capacitance of a parallel plate Capacitor in the following cases-

Plate area doubled; ε_t and d constant.

ε_r half; A and d constant.

- d) An iron ring with mean circumference 80 cm and cross-sectional area 10 cm² is uniformly wound with 500 turns of wire. Determine the current required to set up a flux density of 1.2 wb/m² in the ring. Assume relative permeability = 1000 for iron.
- e) State Faraday's laws of electromagnetic induction and state its any two applications in electrical engineering.
- f) 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 cm². Determine the mutual inductance between two coils. Assume relative permeability = 1200 for iron.

Q.5 Attempt any four of the following:

16 Marks

- a) State and explain Lenz law.
- b) Compare statically induced e.m.f. with dynamically induced e.m.f.
- c) Prove that $L = N^2/S$ where N = number of turns and S = reluctance
- d) A cast steel ring with mean circumference 90 cm and cross-sectional area 100 mm² is uniformly wound with 800 turns of wire. Determine the current required to set up a flux density of 1.2 wb/m² in the ring. Assume relative permeability = 900 for iron.
- e) Give any four practical applications of an electromagnet.
- f) A wooden ring of mean diameter 400 mm and cross-sectional area 400 mm² 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

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

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