

5. (a) Define each of the following terms:
- (i) temperature coefficient of resistance;
  - (ii) resistivity.
- (2 marks)
- (b) (i) State three effects of temperature on resistance.
- (ii) With the aid of a diagram, explain how  $\alpha$  can be measured by use of a potentiometer.
- (9 marks)

- (c) Figure 1 shows a resistance network. Use Kirchhoff's Law to determine:



Figure 1

- (i) current in each branch;
  - (ii) power dissipated in the 70Ω resistor;
  - (iii) energy absorbed by the 200Ω resistor in 45 minutes.
- (9 marks)
6. (a) State Faraday's Laws of electromagnetic induction. (4 marks)
- (b) Define each of the following terms with reference to magnetic circuits:
- (i) magnetic field strength;
  - (ii) relative permeability;
  - (iii) reluctance.
- (3 marks)
- (c) Distinguish between soft and hard magnetic materials. (6 marks)
- (d) (i) Two coils when connected in series aiding and series opposing have a total inductance of 0.4H and 0.8H respectively. If the self inductance of the first coil is 0.3H, determine:
- (I) mutual inductance between the coils;
  - (II) self inductance of the second coil;
  - (III) coupling coefficient between the coils.
- (ii) A ring with a mean circumference of 60 cm is uniformly wound with a coil of 500 turns. If the material of the ring has a relative permeability of 700, determine the reluctance of the ring. (7 marks)

7. (a) Define each of the following terms with reference to alternating current:
- (i) periodic time;
  - (ii) form factor;
  - (iii) waveforms.
- (3 marks)
- (b) The current flowing in a circuit is given by  $i = 200 \sin 942t$  A. Determine:
- (i) frequency;
  - (ii) periodic time;
  - (iii) time taken for the current to reach 120A;
  - (iv) energy absorbed when the current flows through a 100Ω resistor for ¼ hours.
- (7 marks)

# Electrical Engineering Past Exam Papers N3 And N4

**Nehemiah Hawkins**



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