

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:

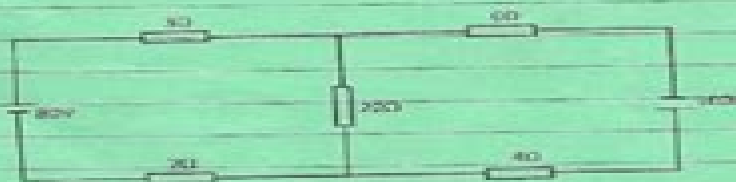


Figure 1

- (i) current in each branch;
  - (ii) power dissipated in the  $70\Omega$  resistor;
  - (iii) energy absorbed by the  $200\Omega$  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  $0.4\text{H}$  and  $0.8\text{H}$  respectively. If the self inductance of the first coil is  $0.3\text{H}$ , 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  $60\text{ cm}$  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.
- (5 marks)
- (b) The current flowing in a circuit is given by  $i = 200 \sin 942 t$ . Determine:
- (i) frequency;
  - (ii) periodic time;
  - (iii) time taken for the current to reach  $120\text{ A}$ ;
  - (iv) energy absorbed when the current flows through a  $1000\Omega$  resistor for  $\frac{1}{4}$  hours.
- (7 marks)

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