

QUESTION 1: NETWORK THEORY

Use Kirchhoff's law to calculate the current flowing through the load resistor (R_L) in FIGURE 1.

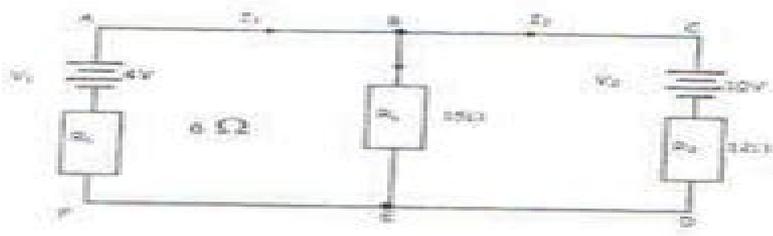


FIGURE 1

[10]

QUESTION 2: ALTERNATING CURRENT THEORY

Consider the circuit DIAGRAM shown in FIGURE 2 and calculate the following:

- 2.1 The total impedance of the circuit (4)
- 2.2 The current in each branch (6)

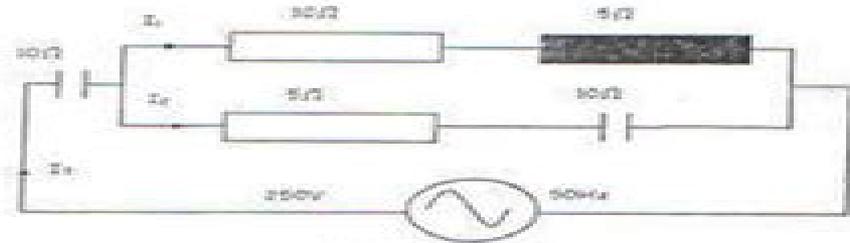


FIGURE 2

[10]

QUESTION 3: SEMI-CONDUCTORS AND POWER SUPPLY

- 3.1 Calculate the forward resistance of a diode if it conducts at 0,15 mA at a room temperature of 30 °C. (3)
- 3.2 Choose the correct word from the options given within brackets.
A zener diode must be connected in (forward/reverse) bias when used as a regulator and a junction diode must be connected in (forward/reverse) bias when used as a rectifier in a circuit. (2)

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