#### QUESTION 1: NETWORK THEORY

Use Kirchhoff's law to calculate the current flowing through the load resistor (RL) 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)



[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.

(23)

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