

ASSESSMENT 01
INDUSTRIAL ELECTRONICS N4
Total: [40 MARKS]

DURATION [1 HOUR 12 MINUTES]

INSTRUCTIONS:

Read carefully and answer all questions.

1. A circuit consist of the following impedances:

$$Z_1 = 6 \angle 30^\circ$$

$$Z_2 = 8 \angle 45^\circ$$

$$Z_3 = 1 \angle 44^\circ$$

If Z_1 and Z_2 are connected in parallel and this combination is connected in series with Z_3 to a 240V, 50Hz, calculate:

- The total impedance of the circuit
- The current flow through Z_1
- The current flow through Z_3

(5)

(4)

(4)

2. Study the diagram below and answer the questions that follow:

(2)

- The resonant frequency
- Current through the coil
- Current through the capacitor
- Dynamic impedance
- Total current from the supply

(3)

(2)

(2)

(3)

3. Zener voltage regulator circuit has the following: $V_{in} = 15V$, $V_o = 8V$, $P_z = 5W$ and $I_L = 0.16A$. Calculate the series resistor (R_s) and the load resistor

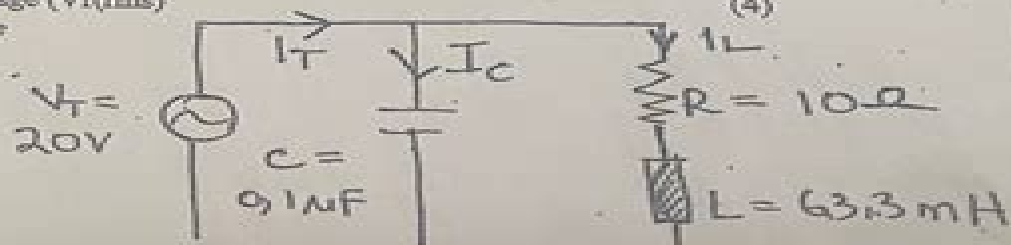
(6)

4. The A step down transformer 240V/30V at 50Hz is connected to a rectifier, which is in turn is connected to a capacitor filter. The capacitor has a value of 630 micro farad and the load resistor is 100 ohms. It is a half-wave rectifier. Calculate the following:

- Output voltage (V_{dc})
- The RMS ripple voltage ($V_r(rms)$)

(4)

(4)



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