

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:

- a) The total impedance of the circuit
 b) The current flow through Z_2
 c) The current flow through Z_3

(5)
(4)
(4)

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

- a) The resonant frequency
 b) Current through the coil
 c) Current through the capacitor
 d) Dynamic impedance
 e) Total current from the supply

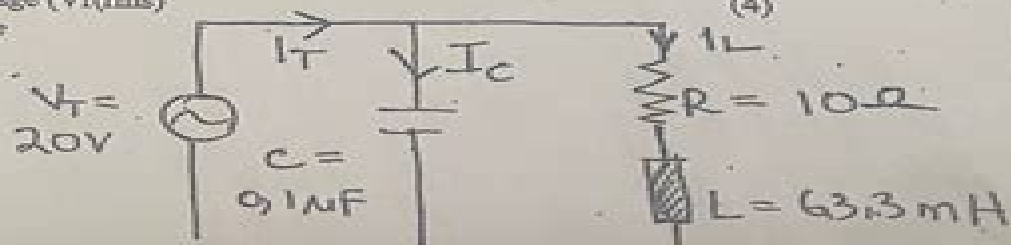
(2)
(3)
(2)
(2)
(3)

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:

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

(4)
(4)



Industrial Electronics N4 201ex Paper Answers And Solutions

Shasha Hu



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