

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  $Z_2$
- 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

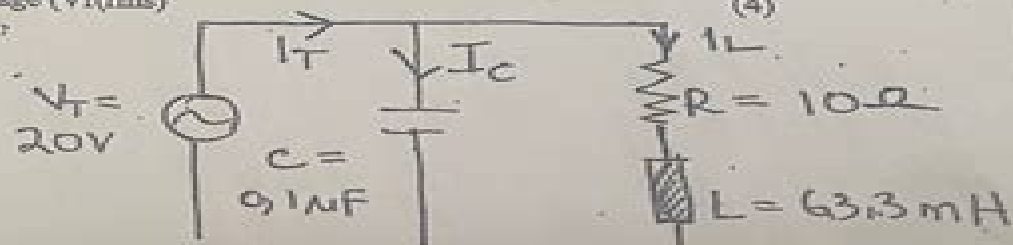
(6)

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)



# Industrial Electronics N4 201ex Paper Answers And Solutions

**Jicheng Xie**



## **Industrial Electronics N4 201ex Paper Answers And Solutions:**

## **Industrial Electronics N4 201ex Paper Answers And Solutions** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Industrial Electronics N4 201ex Paper Answers And Solutions**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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