

UNIVERSITY OF KWAZULU-NATAL
SCHOOL OF ENGINEERING
ELECTRICAL PRINCIPLES 1 – ENEL2EA
1ST Semester Examinations 2023

Time: 3 hours
Total marks: 100

Examiners: Mr. N. Sibanda
Dr. F. Ghayoor
Prof. T. Quazi

Instructions to candidates:

- 1) Your answers to Sections A and B must be submitted in separate examination books
- 2) Calculators may be used.

Section A: Circuit Theory

[Attempt ALL questions for this Section]

Question 1A (7 marks)

For the circuit in Figure Q1A below, find

1. The value of R_L that results in maximum power being transferred to R_L . [3]
2. The maximum power that can be delivered to R_L . [3]
3. Draw the equivalent output Thevenin circuit. [1]



Figure Q1A

Question 2A (7 marks)

Use the nodal method to obtain the current I in the network of Figure Q2A, by

1. Writing down nodal equations in matrix form. [3]
2. Using Cramer's rule to solve for the nodal 1 voltage. [3]
3. Finally, determine the current I . [1]



Figure Q2A

Question 3A (11 marks)

A coil having a resistance of 25Ω and inductance of $2.5H$ is connected across a $50V$ dc supply. Determine:

1. The expressions for the inductor current in the circuit. [9]
2. The inductor current after 0.15 seconds. [1]

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Arturo Cuomo



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