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

Time: 3 hours Total marks: 100

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

[9]

[1]

Instructions to candidates:

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

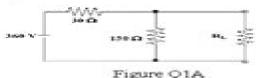
Section A: Circuit Theory

[Attempt ALL questions for this Section]

Question LA (7 marks)

For the circuit in Figure Q1A below, find

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



Question 2A (7 marks)

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

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

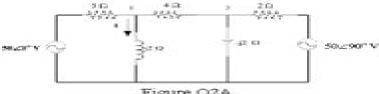


Figure Q2A.

Question 3A (11 marks)

A coil having a resistance of 250 and inductance of 2.5H is connected across a 50V dc supply. Determine:

- The expressions for the inductor current in the circuit.
- The inductor current after 0.15 seconds.

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