

# Exemplar examination paper

Time: 2 hours

Total: 93 marks

## Instructions

Answer all the questions.

1. Read and understand the questions before you answer.
2. Keep questions and sub-sections of the questions together.
3. Start each question on a new page.
4. Use the same numbering as indicated on the assessment.
5. Leave the margins clear for comments and mark allocation.
6. Rule off after each question.
7. Only use a black or blue ink.
8. Use  $\pi = 3,142$ .
9. All calculations must be approximated to three decimal points.

This assessment task includes a formula sheet.

## QUESTION 1: KIRCHHOFF'S LAWS

1.1 Make use of an applicable illustration to define the following:

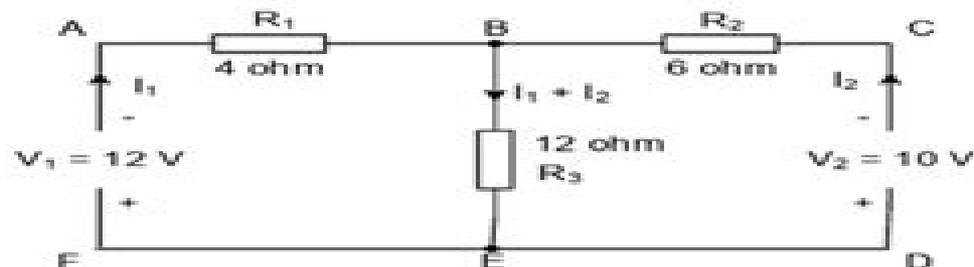
1.1.1 Kirchhoff's Voltage Law

(4)

1.1.2 Kirchhoff's Current Law

(4)

1.2 Consider the network below and determine the magnitude of the current through resistor  $R_3$  by making use of Kirchhoff's Laws.



(9)

[17]

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**J Ma**



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