

DEPARTMENT OF EDUCATION REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
ELECTRO-TECHNOLOGY N3
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

- Answer ALL the questions.
- Full marks can be obtained by answering questions to the value of 100 marks correctly.
- Make sure to copy the correct information from the question paper and to substitute the correct value for the correct symbol.
- Number the answers clearly, correctly and keep the subsections of questions together, for example QUESTION 1.1, 1.2, 1.3 et cetera. Rule off on completion of each question.
- ALL the sketches and/or diagrams must be done in pencil. The sketches must be neat, reasonably large and fully labelled.
- Untidy and illegible work will be strictly penalised.
- Work the answers to THREE decimal numbers after the comma, for example 3,142.
- 8. Use the correct units for answers.

QUESTION 1

- 1.1 Briefly explain by means of neat, labelled circuit diagrams FOUR types of direct-current machines.
- 1.2 State the type of material that is used mainly for brushes of a direct-current machine and motivate why that material is used.

(2) [10]

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Daniel N. Joudrey

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