



**DEPARTMENT OF EDUCATION
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
ELECTRO-TECHNOLOGY N3
TIME: 3 HOURS
MARKS: 100**

April 07

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Full marks can be obtained by answering questions to the value of 100 marks correctly.
3. Make sure to copy the correct information from the question paper and to substitute the correct value for the correct symbol.
4. 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.
5. ALL the sketches and/or diagrams must be done in pencil. The sketches must be neat, reasonably large and fully labelled.
6. Untidy and illegible work will be strictly penalised.
7. 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. (8)
 - 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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Lei Huang



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