

# DEPARTMENT OF EDUCATION REPUBLIC OF SOUTH AFRICA

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

April OT

#### 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]

680

# **Memorundum Of Electro Technology August 2011**

**Christian G. Meyer** 

## **Memorundum Of Electro Technology August 2011:**

**Engineering Rules** JoAnne Yates, Craig N. Murphy, 2019-06-11 The first global history of voluntary consensus standard setting Finalist Hagley Prize in Business History The Hagley Museum and Library The Business History Conference Private voluntary standards shape almost everything we use from screw threads to shipping containers to e readers They have been critical to every major change in the world economy for more than a century including the rise of global manufacturing and the ubiquity of the internet In Engineering Rules JoAnne Yates and Craig N Murphy trace the standard setting system s evolution through time revealing a process with an astonishingly pervasive if rarely noticed impact on all of our lives This type of standard setting was established in the 1880s when engineers aimed to prove their status as professionals by creating useful standards that would be widely adopted by manufacturers while satisfying corporate customers Yates and Murphy explain how these engineers processes provided a timely way to set desirable standards that would have taken much longer to emerge from the market and that governments were rarely willing to set By the 1920s the standardizers began to think of themselves as critical to global prosperity and world peace After World War II standardizers transcended Cold War divisions to create standards that made the global economy possible Finally Yates and Murphy reveal how since 1990 a new generation of standardizers has focused on supporting the internet and web while applying the same standard setting process to regulate the potential social and environmental harms of the increasingly global economy Drawing on archival materials from three continents Yates and Murphy describe the positive ideals that sparked the standardization movement the ways its leaders tried to realize those ideals and the challenges the movement faces today Engineering Rules is a riveting global history of the people processes and organizations that created and maintain this nearly invisible infrastructure of today s economy which is just as important as the state or the global market **Memorandum and Articles of Association** Electrical Research Association.1971

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