

T670(E)J29/T
AUGUST 2004

NATIONAL CERTIFICATE

ELECTRO-TECHNOLOGY N3

(11040343)

29 July (X-Paper)
09:00 – 12:00



DEPARTMENT OF EDUCATION

-2-

T670(E)J29/T

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

Answer ALL the questions.

INSTRUCTIONS

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

Formula sheets are attached.

QUESTION 1

- 1.1 Name TWO methods which could be used to wind the armature of a direct-current machine and its application. (4)
- 1.2 Briefly explain the term pole pitch. (2)
- 1.3 Name FOUR methods which could be used to minimise the effects of armature reaction. (4)

[10]

PTO

Eletrotechnology N3 Past Papers

Karin Nielsen-Saines



Electrotechnology N3 Past Papers:

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994

China World Bank, 1993 The Republic of Korea's industrial policy has directed that nation's economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy's structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts

Government Reports Announcements & Index, 1995 *Electrotechnology N3 Student's Book* SA Chuturgoon, 2015

Electrotechnology Pieter Johannes Andries Bakker, 1987 *N3 electrotechnology* Tommy Ferreira, 198?

Electrotechnology N3 Tommy Ferreira, 2015 *N3 Electrotechnology*, 2018

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