

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

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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

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Table of Contents Eletrotechnology N3 Past Papers

1. Understanding the eBook Eletrotechnology N3 Past Papers
 - The Rise of Digital Reading Eletrotechnology N3 Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Eletrotechnology N3 Past Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Eletrotechnology N3 Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Eletrotechnology N3 Past Papers
 - Personalized Recommendations
 - Eletrotechnology N3 Past Papers User Reviews and Ratings
 - Eletrotechnology N3 Past Papers and Bestseller Lists
5. Accessing Eletrotechnology N3 Past Papers Free and Paid eBooks

- Eletrotechnology N3 Past Papers Public Domain eBooks
- Eletrotechnology N3 Past Papers eBook Subscription Services
- Eletrotechnology N3 Past Papers Budget-Friendly Options
- 6. Navigating Eletrotechnology N3 Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Eletrotechnology N3 Past Papers Compatibility with Devices
 - Eletrotechnology N3 Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Eletrotechnology N3 Past Papers
 - Highlighting and Note-Taking Eletrotechnology N3 Past Papers
 - Interactive Elements Eletrotechnology N3 Past Papers
- 8. Staying Engaged with Eletrotechnology N3 Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Eletrotechnology N3 Past Papers
- 9. Balancing eBooks and Physical Books Eletrotechnology N3 Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Eletrotechnology N3 Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Eletrotechnology N3 Past Papers
 - Setting Reading Goals Eletrotechnology N3 Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Eletrotechnology N3 Past Papers
 - Fact-Checking eBook Content of Eletrotechnology N3 Past Papers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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