



NATIONAL CERTIFICATE ELECTRICAL TRADE THEORY N3

(11041263)

28 November 2023 (X-paper)
09:00–12:00

Drawing instruments and nonprogrammable calculators may be used.

This question paper consists of 6 pages and a 1-page formula sheet.

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QUESTION 1: ALTERNATING CURRENT CIRCUIT THEORY

- 1.1 Three-phase motors are cheaper and smaller for the same power rating than single-phase motors.



State THREE other advantages of three-phase motors over single-phase motors.

(3)

- 1.2 Prove that total power in a balanced star or delta system are both equal to $\sqrt{3} V_L I_L \cos \theta$

(5)

- 1.3 An alternating current is represented by a non-sinusoidal waveform and has the following ordinates:

Phase angle in degrees	0°	30°	60°	90°	120°	150°	180°
Current in amperes	0	28	33	35	28	9,5	0

Without drawing the waveform, determine the following:

- 1.3.1 The average value

(6)

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SB Merriam



South African N1 2014 Question Papers Electric Trade Theory:

Unveiling the Magic of Words: A Review of "**South African N1 2014 Question Papers Electric Trade Theory**"

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Table of Contents South African N1 2014 Question Papers Electric Trade Theory

1. Understanding the eBook South African N1 2014 Question Papers Electric Trade Theory
 - The Rise of Digital Reading South African N1 2014 Question Papers Electric Trade Theory
 - Advantages of eBooks Over Traditional Books
2. Identifying South African N1 2014 Question Papers Electric Trade Theory
 - 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 South African N1 2014 Question Papers Electric Trade Theory
 - User-Friendly Interface
4. Exploring eBook Recommendations from South African N1 2014 Question Papers Electric Trade Theory
 - Personalized Recommendations
 - South African N1 2014 Question Papers Electric Trade Theory User Reviews and Ratings

- South African N1 2014 Question Papers Electric Trade Theory and Bestseller Lists
- 5. Accessing South African N1 2014 Question Papers Electric Trade Theory Free and Paid eBooks
 - South African N1 2014 Question Papers Electric Trade Theory Public Domain eBooks
 - South African N1 2014 Question Papers Electric Trade Theory eBook Subscription Services
 - South African N1 2014 Question Papers Electric Trade Theory Budget-Friendly Options
- 6. Navigating South African N1 2014 Question Papers Electric Trade Theory eBook Formats
 - ePub, PDF, MOBI, and More
 - South African N1 2014 Question Papers Electric Trade Theory Compatibility with Devices
 - South African N1 2014 Question Papers Electric Trade Theory Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of South African N1 2014 Question Papers Electric Trade Theory
 - Highlighting and Note-Taking South African N1 2014 Question Papers Electric Trade Theory
 - Interactive Elements South African N1 2014 Question Papers Electric Trade Theory
- 8. Staying Engaged with South African N1 2014 Question Papers Electric Trade Theory
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers South African N1 2014 Question Papers Electric Trade Theory
- 9. Balancing eBooks and Physical Books South African N1 2014 Question Papers Electric Trade Theory
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection South African N1 2014 Question Papers Electric Trade Theory
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine South African N1 2014 Question Papers Electric Trade Theory
 - Setting Reading Goals South African N1 2014 Question Papers Electric Trade Theory
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of South African N1 2014 Question Papers Electric Trade Theory
 - Fact-Checking eBook Content of South African N1 2014 Question Papers Electric Trade Theory
 - 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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