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## 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.

Everpapers on 25 environ bedreven 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 √3 V<sub>L</sub>I<sub>L</sub> cosθ (5)1.3 An alternating current is represented by a non-sinusoidal waveform and has the following ordinates: Phase angle in degrees 150\* 180\* 30° 60\* 900 120% Current in amperes 28 33 35 28 9.5

Without drawing the waveform, determine the following:

1.3.1 The average value

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**AN Whitehead** 

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#### **Table of Contents N3 Electric Trade Theory Question Paper**

- 1. Understanding the eBook N3 Electric Trade Theory Question Paper
  - The Rise of Digital Reading N3 Electric Trade Theory Question Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying N3 Electric Trade Theory Question Paper
  - 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 N3 Electric Trade Theory Question Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from N3 Electric Trade Theory Question Paper
  - Personalized Recommendations
  - N3 Electric Trade Theory Question Paper User Reviews and Ratings
  - N3 Electric Trade Theory Question Paper and Bestseller Lists
- 5. Accessing N3 Electric Trade Theory Question Paper Free and Paid eBooks

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