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NATIONAL CERTIFICATE ELECTROTECHNICS N5 TIME: 3 HOURS MARKS: 100



QUESTION 1

1.3
$$V = 550 V$$
 $P = 44 kW$. $N = 1500 rpm$ $\eta = 85\% = 0.85$

1.3.1 Input =
$$\frac{\text{Output}}{\eta}$$
 = $\frac{44}{0.85}$ = $\frac{51.765 \text{ kW}}{\sqrt{}}$ | IL = P/V = $\frac{51765}{550}$ \(\text{ = } \frac{94.12 \text{ A}}{\text{ }} \)

1.3.2 Output =
$$\frac{2 \pi N T}{60}$$

$$V = E + Vb + Va (at start) E = 0 Va = Ia (Ra + x)$$

(4)

(3)

(3)

L Reisser

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Table of Contents Mathematics N5 Past Exam Question Papers Memorandums

- 1. Understanding the eBook Mathematics N5 Past Exam Question Papers Memorandums
 - The Rise of Digital Reading Mathematics N5 Past Exam Question Papers Memorandums
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics N5 Past Exam Question Papers Memorandums
 - 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 Mathematics N5 Past Exam Question Papers Memorandums
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics N5 Past Exam Question Papers Memorandums
 - Personalized Recommendations
 - Mathematics N5 Past Exam Question Papers Memorandums User Reviews and Ratings
 - Mathematics N5 Past Exam Question Papers Memorandums and Bestseller Lists
- 5. Accessing Mathematics N5 Past Exam Question Papers Memorandums Free and Paid eBooks
 - Mathematics N5 Past Exam Question Papers Memorandums Public Domain eBooks
 - Mathematics N5 Past Exam Question Papers Memorandums eBook Subscription Services
 - Mathematics N5 Past Exam Question Papers Memorandums Budget-Friendly Options
- 6. Navigating Mathematics N5 Past Exam Question Papers Memorandums eBook Formats

- o ePub, PDF, MOBI, and More
- Mathematics N5 Past Exam Question Papers Memorandums Compatibility with Devices
- Mathematics N5 Past Exam Question Papers Memorandums Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics N5 Past Exam Question Papers Memorandums
 - Highlighting and Note-Taking Mathematics N5 Past Exam Question Papers Memorandums
 - Interactive Elements Mathematics N5 Past Exam Question Papers Memorandums
- 8. Staying Engaged with Mathematics N5 Past Exam Question Papers Memorandums
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics N5 Past Exam Question Papers Memorandums
- 9. Balancing eBooks and Physical Books Mathematics N5 Past Exam Question Papers Memorandums
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Mathematics N5 Past Exam Question Papers Memorandums
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics N5 Past Exam Question Papers Memorandums
 - Setting Reading Goals Mathematics N5 Past Exam Question Papers Memorandums
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics N5 Past Exam Question Papers Memorandums
 - Fact-Checking eBook Content of Mathematics N5 Past Exam Question Papers Memorandums
 - 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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