

DEPARTMENT OF EDUCATION
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
ELECTROTECHNICS N5
TIME: 3 HOURS
MARKS: 100

QUESTION 1

1.1 By reversing either the field \checkmark or armature connections. \checkmark (2)

1.2 They are placed in slots in the pole shoes. \checkmark They are connected in series with the armature windings. \checkmark (2)

1.3 $V = 550 \text{ V}$ $P = 44 \text{ kW}$ $N = 1500 \text{ rpm}$ $\eta = 85\% = 0.85$
 $R_a = 0.32$ $I_f = 1.8 \text{ A}$ $I_a R_b = 3.5 \text{ V}$

1.3.1 $\text{Input} = \frac{\text{Output}}{\eta} = 44 / 0.85 = 51.765 \text{ kW} \checkmark$

$I_L = P / V = 51765 / 550 \checkmark = 94.12 \text{ A} \checkmark$ (3)

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

$44000 = \frac{2 \pi 1500 T}{60} \checkmark$

$T = \frac{44000 \times 60}{2 \pi 1500} \checkmark$

$= 280.25 \text{ Nm} \checkmark$ (3)

1.3.3 $\text{Starting current} = 1.75 \text{ (full load)} = 1.75 \times 94.12 = 164.7 \text{ A} \checkmark$

$I_a = I - I_f = 164.7 - 1.8 = 162.9 \text{ A} \checkmark$

$V = E + V_b + V_a \text{ (at start)} \quad E = 0 \quad V_a = I_a (R_a + x)$

$550 = 0 + 3.5 + 162.9 (0.32 + x) \checkmark$

$x = \frac{550 - 55.63}{16.9}$

$= 2.035 \text{ ohms} \checkmark$

(4)

Memorandum For Electrotechnics Question Papers

JR Anderson



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Table of Contents Memorandum For Electrotechnics Question Papers

1. Understanding the eBook Memorandum For Electrotechnics Question Papers
 - The Rise of Digital Reading Memorandum For Electrotechnics Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum For Electrotechnics Question 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 Memorandum For Electrotechnics Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum For Electrotechnics Question Papers
 - Personalized Recommendations
 - Memorandum For Electrotechnics Question Papers User Reviews and Ratings
 - Memorandum For Electrotechnics Question Papers and Bestseller Lists

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