

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)

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Jianjun Gao



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Table of Contents Electrotechnics Nprevious Question Papers 23

1. Understanding the eBook Electrotechnics Nprevious Question Papers 23
 - The Rise of Digital Reading Electrotechnics Nprevious Question Papers 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnics Nprevious Question Papers 23
 - 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 Electrotechnics Nprevious Question Papers 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnics Nprevious Question Papers 23
 - Personalized Recommendations
 - Electrotechnics Nprevious Question Papers 23 User Reviews and Ratings
 - Electrotechnics Nprevious Question Papers 23 and Bestseller Lists
5. Accessing Electrotechnics Nprevious Question Papers 23 Free and Paid eBooks
 - Electrotechnics Nprevious Question Papers 23 Public Domain eBooks
 - Electrotechnics Nprevious Question Papers 23 eBook Subscription Services
 - Electrotechnics Nprevious Question Papers 23 Budget-Friendly Options

6. Navigating Electrotechnics Nprevious Question Papers 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrotechnics Nprevious Question Papers 23 Compatibility with Devices
 - Electrotechnics Nprevious Question Papers 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrotechnics Nprevious Question Papers 23
 - Highlighting and Note-Taking Electrotechnics Nprevious Question Papers 23
 - Interactive Elements Electrotechnics Nprevious Question Papers 23
8. Staying Engaged with Electrotechnics Nprevious Question Papers 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnics Nprevious Question Papers 23
9. Balancing eBooks and Physical Books Electrotechnics Nprevious Question Papers 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnics Nprevious Question Papers 23
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electrotechnics Nprevious Question Papers 23
 - Setting Reading Goals Electrotechnics Nprevious Question Papers 23
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrotechnics Nprevious Question Papers 23
 - Fact-Checking eBook Content of Electrotechnics Nprevious Question Papers 23
 - 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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