

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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L Darling-Hammond



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Table of Contents Mechanotechnics N5 Question Papers

1. Understanding the eBook Mechanotechnics N5 Question Papers
 - The Rise of Digital Reading Mechanotechnics N5 Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanotechnics N5 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 Mechanotechnics N5 Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanotechnics N5 Question Papers
 - Personalized Recommendations
 - Mechanotechnics N5 Question Papers User Reviews and Ratings

- Mechanotechnics N5 Question Papers and Bestseller Lists
- 5. Accessing Mechanotechnics N5 Question Papers Free and Paid eBooks
 - Mechanotechnics N5 Question Papers Public Domain eBooks
 - Mechanotechnics N5 Question Papers eBook Subscription Services
 - Mechanotechnics N5 Question Papers Budget-Friendly Options
- 6. Navigating Mechanotechnics N5 Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanotechnics N5 Question Papers Compatibility with Devices
 - Mechanotechnics N5 Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanotechnics N5 Question Papers
 - Highlighting and Note-Taking Mechanotechnics N5 Question Papers
 - Interactive Elements Mechanotechnics N5 Question Papers
- 8. Staying Engaged with Mechanotechnics N5 Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanotechnics N5 Question Papers
- 9. Balancing eBooks and Physical Books Mechanotechnics N5 Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanotechnics N5 Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanotechnics N5 Question Papers
 - Setting Reading Goals Mechanotechnics N5 Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanotechnics N5 Question Papers
 - Fact-Checking eBook Content of Mechanotechnics N5 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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