

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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RM Cervero



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Table of Contents Mathematics N5 Previous Question Papers And Memorandums

1. Understanding the eBook Mathematics N5 Previous Question Papers And Memorandums
 - The Rise of Digital Reading Mathematics N5 Previous Question Papers And Memorandums
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics N5 Previous Question Papers And 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 Previous Question Papers And Memorandums
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics N5 Previous Question Papers And Memorandums
 - Personalized Recommendations
 - Mathematics N5 Previous Question Papers And Memorandums User Reviews and Ratings
 - Mathematics N5 Previous Question Papers And Memorandums and Bestseller Lists
5. Accessing Mathematics N5 Previous Question Papers And Memorandums Free and Paid eBooks

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