

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)

N5 Maths Past Question Papers

SA Dillow



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Table of Contents N5 Maths Past Question Papers

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

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