

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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IIT JEE Mathematics Study Notes: Guide for Exam Preparation, 2024-04-01 *Stochastic Processes, Physics and Geometry: New Interplays. I* Sergio Albeverio, Fritz Gesztesy, 2000 A selection of 21 contributions from invited speakers treat advanced topics at the interface between mathematics and physics Most are high level research papers but some overview their topics among which are growth and saturation in random media the maximal dissipativity of the Dirichlet operator corresponding to the Burgers equation the square of the self intersection local time of Brownian motion the spectral theory of sparse potentials and diffusions on simple configuration spaces Additional short contributions pay tribute to Swiss born physicist Albeverio A second volume presents selected volunteer papers There is no index Annotation copyrighted by Book News Inc Portland OR **JSL Vol 26-N5 JOURNAL OF SCHOOL LEADERSHIP**, 2017-01-12 JSL invites the submission of manuscripts that contribute to the exchange of ideas and scholarship about schools and leadership All theoretical and methodological approaches are welcome We do not advocate or practice a bias toward any mode of inquiry e g qualitative vs quantitative empirical vs conceptual discipline based vs interdisciplinary and instead operate from the assumption that all careful and methodologically sound research has the potential to contribute to our understanding of school leadership We strongly encourage authors to consider both the local and global implications of their work The journal s goal is to clearly communicate with a diverse audience including both school based and university based educators The journal embraces a broad conception of school leadership and welcomes manuscripts that reflect the diversity of ways in which this term is understood The journal is interested not only in manuscripts that focus on administrative leadership in schools and school districts but also in manuscripts that inquire about teacher student parent and community leadership **The Early Mathematics of Leonhard Euler** C. Edward Sandifer, 2020-07-14 The Early Mathematics of Leonhard Euler gives an article by article description of Leonhard Euler s early mathematical works the 50 or so mathematical articles he wrote before he left St Petersburg in 1741 to join the Academy of Frederick the Great in Berlin These early pieces contain some of Euler s greatest work the Konigsberg bridge problem his solution to the Basel problem and his first proof of the Euler Fermat theorem It also presents important results that we seldom realize are due to Euler that mixed partial derivatives are usually equal our $f_{xy} = f_{yx}$ notation and the integrating factor in differential equations The book shows how contributions in diverse fields are related how number theory relates to series which in turn relate to elliptic integrals and then to differential equations There are dozens of such strands in this beautiful web of mathematics At the same time we see Euler grow in power and sophistication from a young student when at 18 he published his first work on differential equations a paper with a serious flaw to the most celebrated mathematician and scientist of his time It is a portrait of the world s most exciting mathematics between 1725 and 1741 rich in technical detail woven with connections within Euler s work and with the work of other mathematicians in other times and places laced with historical context **New Abacus** Ruth Merttens, David

Kirkby,2001-02-19 Covering the background and philosophy of the New Abacus programme this book shows how it delivers UK curricula requirements offering examples of good practice in planning and record keeping and assessment **South African national bibliography** ,1999 Classified list with author and title index *Current Index to Journals in Education* ,1992 *The Correspondence of Charles Darwin: Volume 22, 1874* Charles Darwin,2015-03-05 This volume is part of the definitive edition of letters written by and to Charles Darwin the most celebrated naturalist of the nineteenth century Notes and appendixes put these fascinating and wide ranging letters in context making the letters accessible to both scholars and general readers Darwin depended on correspondence to collect data from all over the world and to discuss his emerging ideas with scientific colleagues many of whom he never met in person The letters are published chronologically volume 22 includes letters from 1874 the year in which Darwin completed his research on insectivorous plants and published second editions of *Descent of Man* and *Coral Reefs* The year also saw an acrimonious dispute between Darwin and St George Jackson Mivart as a result of an anonymous review the latter had written in which he criticised Darwin s son George **The Figure of the Road** Christopher D. Morris,2007 The Figure of the Road examines the metaphor of the road way or path in works of representative humanities disciplines literature religion philosophy visual art popular culture to show how writers and artists anticipated the dilemma known to contemporary deconstruction as the aporia or pathless place This tradition exposes the solution advocated in Derrida s late thought the search for the tout autre as a negative theology and suppression of writing s freedom to allegorize these insoluble problems The Figure of the Road concludes by tracing the bleak Beckett like implications of this freedom for curriculum and ethics in a world understood as wholly figural **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2005

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Table of Contents Question Papers And Memos For Mathematics N5

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

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