

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)

Memo For Maths N5 Question Papers

RD Boyd



Memo For Maths N5 Question Papers:

Fractals and Chaos Benoit Mandelbrot, 2013-06-29 It has only been a couple of decades since Benoit Mandelbrot published his famous picture of what is now called the Mandelbrot set That picture now seeming graphically primitive has changed our view of the mathematical and physical universe The properties and circumstances of the discovery of the Mandelbrot Set continue to generate much interest in the research community and beyond This book contains the hard to obtain original papers many unpublished illustrations dating back to 1979 and extensive documented historical context showing how Mandelbrot helped change our way of looking at the world **Government Reports Announcements**, 1974

Government Reports Announcements & Index, 1979 **Representations of Algebras** Graham J. Leuschke, Frauke Bleher, Ralf Schiffler, Dan I. Zacharia, 2018 Contains the proceedings of the 17th Workshop and International Conference on Representations of Algebras ICRA 2016 held in August 2016 at Syracuse University This volume includes three survey articles based on short courses in the areas of commutative algebraic groups modular group representation theory and thick tensor ideals of bounded derived categories Current Index to Journals in Education, 1991 *U.S. Government Research & Development Reports*, 1969-10 Government Reports Announcements, 1975 **Bibliography of Scientific and Industrial Reports**, 1969 *National Union Catalog*, 1956 Includes entries for maps and atlases **U.S. Government Research & Development Reports**, 1968-04 **Exceptional Child Education Abstracts**, 1973 **International Automobile Safety Bibliography of Literature Through January 1970** University of Michigan. Highway Safety Research Institute, 1970 **alternative press index** ALTERNATIVE PRESS INDEX, 2002 **The Wall Street Journal**, 1990

Library of Congress Catalog Library of Congress, 1965 A cumulative list of works represented by Library of Congress printed cards **University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles** University of California (System). Institute of Library Research, University of California, Berkeley, 1972 International Books in Print, 1979 *Library of Congress Catalogs* Library of Congress, 1970

Mathematics N5 Student's Book JV John, 2022 *TeeJay National 5 Mathematics* James Cairns, James Geddes, Thomas Strang, 2013-07-15 Increase students skills confidence and chance of success in their National 5 Maths exam with full course coverage delivered through the trusted TeeJay approach This book provides hundreds of practice questions with progression and consolidation the core TeeJay philosophy underpinning every exercise and chapter Use Book 4 followed by Book N5 to cover the entire National 5 course This book can be used alone as a freestanding N5 course in S5 or S6 for students that have covered the Fourth Level content Chapter Zero revises all of the Fourth Level strands from Book 4 Every chapter ends with Remember Remember exercises for revision and assessment Every third chapter ends with Practice Makes Perfect exercises that consolidate learning across those 3 chapters plus cumulative exercises based on all chapters up to that point Plenty of non calculator exercises are included to enhance numeracy skills Contains 2 Specimen Exam Papers Answers for all

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