

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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D Kirk



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Cooperative Information Systems Mohamed Sellami, Maria-Esther Vidal, Boudewijn van Dongen, Walid Gaaloul, Hervé

Panetto,2023-10-24 This book constitutes the refereed proceedings of the 29th International Conference on Cooperative Information Systems CoopIS 2023 held in Groningen The Netherlands during October 30 November 3 2023 The 21 regular papers and 10 work in progress papers included in this book were carefully reviewed and selected from 100 submissions They were organized in topical sections as follows Knowledge Engineering Deployment and Migration in CISs Security and Privacy in CISs Process Modeling Process Analytics Human Aspects and Social Interaction in CISs and Work in Progress

Model Answers to Mathematics N5 Papers Cornelius Johannes Mostert,1995 **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 A Synopsis of Elementary Results in Pure

Mathematics George Shoobridge Carr,1886 **The Stability of Matter: From Atoms to Stars** Elliott H. Lieb,2013-06-29 The first edition of The Stability of Matter From Atoms to Stars was sold out after a time unusually short for a selecta collection and we thought it appropriate not just to make a reprinting but to include eight new contributions They demonstrate that this field is still lively and keeps revealing unexpected features Of course we restricted ourselves to developments in which Elliott Lieb participated and thus the heroic struggle in Thomas Fermi theory where $7/3 \times 5/3$ the accuracy has been pushed from Z^{-1} to Z^{-1} is not included A rich landscape opened up after Jakob Yngvason s observation that atoms in magnetic fields also are described in suitable limits by a Thomas Fermi type theory Together with Elliott Lieb and Jan Philip Solovej it was eventually worked out that one has to distinguish 5 regions If one takes as a dimensionless measure of the magnetic field strength B the ratio Larmor radius Bohr radius one can compare it with NZ and for each of the domains $4/3 < B/N < 1$ $4/3 < B/N < 1$ $4/3 < B/N < 1$ $4/3 < B/N < 1$ $4/3 < B/N < 1$ a different version of magnetic Thomas Fermi theory becomes exact in the limit $N \rightarrow \infty$ In two dimensions and a confining potential quantum dots the situation is somewhat simpler one has to distinguish only i $B/N < 1$ ii $B/N < 1$ *U.S. Government Research & Development Reports* ,1970 Current Index to Journals in Education, Semi-Annual Cumulation, July-December, 1976 ,1976-10 **The Popular Science Monthly** ,1919

Government Reports Announcements ,1969 **U.S. Government Research & Development Reports** ,1969
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