

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)

Electrotechnics Nquestion Papers

JS Bruner



Electrotechnics Nquestion Papers:

B. Sc Electronics question paper Jayachandran.s,2015-03-31 This publication contains question papers of B Sc electronics circuits second semester question papers **Subject List of Works on Electricity, Magnetism, and Electro-technics** Great Britain. Patent Office. Library,1904 ARUN DEEP'S 10 YEARS SOLVED PAPERS FOR ICSE CLASS 10 EXAM 2024 - COMPREHENSIVE HANDBOOK OF 16 SUBJECTS - YEAR-WISE BOARD SOLUTIONS, REVISED SYLLABUS (TWO COLOURED EDITION) (2013 TO 2023) Panel of Authors, Easy Quick and Concise Revision with Arun Deep s 10 Years Solved Papers for ICSE Class 10 Board Examinations 2024 Our Handbook consists of Solved Papers for total 15 Subjects including English I English II Physics Chemistry Biology History Civics Geography Mathematics Hindi Computer Application Economics Economic Applications Commercial Studies Commercial Applications Physical Education and Home Science 5 minutes Vrinda Singh,2020-01-02 Pooja was a girl but also the wildest of all animals and was very precious to her mother Her mistakes were kept in check by her father who taught her the tough lessons of life in just 5 minutes She was born with glitter in her veins which would attract anyone in 5 minutes Her innocence was killing her beauty was enchanting and her brains were bewitching still she was hated and ignored Digging in the dirt she got trapped in love with a man 18 years elder to her Meetings of 5 minutes cost her decades of life This book is a short journey of the most independent most adventurous and most responsible girl of the 21st century struggling with the old beliefs of Indian society and her commitments to be an ideal daughter an ideal lover and an ideal friend It contains the most thrilling and adrenaline pumping narrative based on true events Oswal - Gurukul 10 Years Solved Papers : ICSE Class 10 for 2023 Exam Oswal - Gurukul,2022-06-10 **Wavelet Analysis And Active Media Technology (In 3 Volumes) - Proceedings Of The 6th International Progress** Stephane Jaffard,Ching Yee Suen,John Daugman,Victor Wickerhauser,Bruno Torresani,John Yen,Ning Zhong,Sankar Kumar Pal,2005-07-06 Wavelet analysis and its applications have been one of the fastest growing research areas in the past several years Wavelet theory has been employed in numerous fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and many other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book captures the essence of the current state of the art in wavelet analysis and active media technology It includes nine invited papers by distinguished researchers P Zhang T D Bui and C Y Suen from Concordia University Canada N A Strelkov and V L Dol nikov from Yaroslavl State University Russia Chin Chen Chang and Ching Yun Chang from Taiwan S S Pandey from R D University India and I L Bloshanskii from Moscow State Regional University Russia The proceedings have been selected for coverage in **The Electronics Journal** ,1914 The physical review : a journal of experimental and theoretical physics ,1894 Physical Review ,1894 Vols for 1903 include Proceedings of the American Physical Society **Archives of Radiology and**

Electrotherapy ,1921 *The Swallow's Tale - the Early Years* Liam O'Conner,2017-05-01 This story will take you on a rollercoaster ride of adventure and heartbreak desperation and eventual success but always with a deeper spiritual message as the common thread This poignant and brutally honest memoir is set against a backdrop of laugh until you cry humour and of emotion which touches the very core It is a real against all odds story of the underdog seemingly down and out for the count face in the mud battling for breath But then the devilish Celtic warrior spirit rises from the ashes as you get to glimpse into the eye of a man who has a fury in his heart and a desire to succeed no matter what is thrown at him You get to travel from the streets of Cardiff to the sunny suburbs of Johannesburg in an enthralling story At times it makes you smile with familiarity on other occasions you are holding your sides with laughter The sadder parts of the story are not to be read in public unless you have waterproof mascara or a potential excuse for hayfever The story of Liam OConner is as varied as it is sensitive but underneath it all is still the little red haired boy full of mischief and ambition So if youre ready get a cup of tea and a biscuit and go on a holiday of the mind This is a must read **Sessional Papers** Great Britain. Parliament. House of Commons,1974 **The Annoying Life Knowledge of All Power of Non and Little Heart Agnes** N K S R Nantu Roy Ashim Kumar Salween Roy,2023-05-13 Rebirth is believed in society and the story is based on rebirth It is story of such personality who have European mentality and it may be reality that rebirth may hold on Multi field works and multi talented personality like Leonardo Da Vince as artist Sculptor and engineer works done to all and good for nothing A Scottish boy came to India with his father as his father remained law advisor of East India British company It is story that he loves song and dance and culture of medieval India and rebirth again and again in India but decolonization holds on and cultural change held on He loves a friend in life and believed as best friend in life but left her house as far slightness indicates him that its time come that her marriage holds on near future Life with struggle and hence avoid to meet with her After long time when She remember him that to know about friend than he came to meet with her A miracle feeling execute to mind but life turn time to time Reports and Papers on Mass Communication Unesco. Department of Mass Communications,1971

Question Bank on Electrical and Electronics Engineering with Question Papers from Various Competitive and Recruitment Examinations C. Harish Rai,2020-03-30 This book follows a logical concept building approach rather than only formula based as offered by other books The objective has been to structure a complete examination oriented reference book covering the fundamental aspects of theory at a glance before proceeding to their relevant questions The latest questions 2017 and 2018 from IES with their complete explanations have been given at the end of the text to impart a valuable insight into problem solving approach Reports and Papers on Mass Communication Unesco. Mass Communication Techniques Division,1971 *Fishing Gazette* ,1963 *Journal* South African Institution of Engineers,1909 **Electrical & Electronics Abstracts** ,1997 **Electrical World** ,1893

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