

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)

Eletrics Technics Nquestion Paper

Institution of Electrical Engineers



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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 **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 **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 **The Electronics Journal** ,1914 [Archives of Radiology and Electrotherapy](#) ,1921 **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 Fishing Gazette ,1963 **Engineering** ,1926 *Electrical World* ,1893 **The Electrical Journal** ,1911

Bulletin of the American Mathematical Society American Mathematical Society,1909 **Electricity** ,1919 **The Electrical Review** ,1917 *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 **Journal of the Association of Engineering Societies** Association of Engineering Societies (U.S.),1891 Contains the transactions of various engineering societies *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 rizes 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 Book News ,1889 The Annual Register ,1906 **Proceedings of the Institution of Electrical Engineers** Institution of Electrical Engineers,1917 Vols for 1970 79 include an annual special issue called IEE reviews

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