

DEPARTMENT OF EDUCATION
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
ELECTROTECHNICS N5
TIME: 3 HOURS
MARKS: 100

al

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 Question Papers

JA Banks



Electrotechnics Question 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 **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 **Physical Review** ,1894 Vols for 1903 include Proceedings of the American Physical Society *Sessional Papers* Great Britain. Parliament. House of Commons,1974 *Reports and Papers on Mass Communication* Unesco. Mass Communication Techniques Division,1971 **The physical review : a journal of experimental and theoretical physics** ,1894 Reports and Papers on Mass Communication ,1971 **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 *Archives of Radiology and Electrotherapy* ,1921 *Control in Power Electronics and Electrical Drives* Werner Leonhard,1974 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 *Electricity* ,1919 **Electrical & Electronics**

Abstracts ,1997 **Sweden as Producer of Wood Goods, Pulp, Paper, Tar and Other Forest-products** Aktiebolaget
Svenska teknologföreningens förlag, Stockholm,1920 Parliamentary Papers Great Britain. Parliament. House of
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