

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 Npast Exam Papers 2009

Julia Schneider



Electrotechnics Npast Exam Papers 2009:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Electrotechnics Npast Exam Papers 2009**

In a world inundated with monitors and the cacophony of fast communication, the profound power and emotional resonance of verbal beauty often disappear in to obscurity, eclipsed by the continuous assault of sound and distractions. However, nestled within the lyrical pages of **Electrotechnics Npast Exam Papers 2009**, a interesting work of fictional beauty that pulses with fresh feelings, lies an memorable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that enchanting opus guides viewers on an emotional odyssey, softly exposing the latent potential and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect its interesting writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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