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 √ or armature connections. √ (2)

1.2 They are placed in slots in the pole shoes. √ They are connected in series with the armature windings. √ (2)

1.3 V = 550 V P = 44 kW N = 1500 rpm η = 85% = 0,85

Ra = 0,32 I f = 1,8 A Ia Rb = 3,5 V

1.3.1 Input = $\frac{\text{Output}}{\eta}$ = 44 / 0,85 = 51,765 kW √

I L = P / V = 51765/550 √ = 94,12 A √ (3)

1.3.2 Output = $\frac{2 \pi N T}{60}$

44000 = $\frac{2 \pi 1500 T}{60}$ √

T = $\frac{44000 \times 60}{2 \pi 1500}$ √

= 280,25 Nm √ (3)

1.3.3 Starting current = 1,75 (full load) = 1,75 X 94,12 = 164,7 A √

Ia = I - If = 164,7-1,8 = 162,9 A √

V = E + Vb + Va (at start) E = 0 Va = Ia (Ra + x)

550 = 0 + 3,5 + 162,9 (0,32 + x) √

x = $\frac{550 - 55,63}{16,9}$

= 2,035 ohms √ (4)

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Memorandum For Electrotechnics Question Papers

L Reisser

Memorandum For Electrotechnics Question Papers:

Unveiling the Magic of Words: A Overview of "**Memorandum For Electrotechnics Question Papers**"

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