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 = $\dfrac{Output}{\eta}$ = 44 / 0,85   = 51,765 kW √

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

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

44000 = $\dfrac{2 \pi 1500 T}{60}$ √

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

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

= 2,035 ohms   √   (4)

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