

**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)

$$1.3 \quad V = 550 \text{ V} \quad P = 44 \text{ kW} \quad N = 1500 \text{ rpm} \quad \eta = 85\% = 0.85 \\ R_a = 0.32 \quad I_f = 1.8 \text{ A} \quad I_a R_b = 3.5 \text{ V}$$

$$1.3.1 \quad \text{Input} = \frac{\text{Output}}{\eta} = \frac{44}{0.85} = 51.765 \text{ kW} \quad \checkmark \\ I_L = \frac{P}{V} = \frac{51765}{550} \quad \checkmark = 94.12 \text{ A} \quad \checkmark$$

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

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

$$T = \frac{44000 \times 60}{2\pi \times 1500} \quad \checkmark \\ = 280.25 \text{ Nm} \quad \checkmark$$

$$1.3.3 \quad \text{Starting current} = 1.75 \text{ (full load)} = 1.75 \times 94.12 = 164.7 \text{ A} \quad \checkmark$$

$$I_a = I + I_f = 164.7 - 1.8 = 162.9 \text{ A} \quad \checkmark$$

$$V = E + V_b + V_a \text{ (at start)} \quad E = 0 \quad V_a = I_a (R_a + x)$$

$$550 = 0 + 3.5 + 162.9 (0.32 + x) \quad \checkmark$$

$$x = \frac{550 - 55.63}{16.9} \\ = 2.035 \text{ ohms} \quad \checkmark$$

(4)

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Mathematics Ronald L. Graham,1999-01-01 Discrete mathematics stands among the leading disciplines of mathematics and theoretical computer science This is due primarily to its increasing role in university curriculae and its growing importance in applications ranging from optimization to molecular biology An inaugural conference was held cooperatively by DIMATIA and DIMACS to focus on the versatility width and depth of current progress in the subject area This volume offers a well balanced blend of research and survey papers reflecting the exciting attractive topics in contemporary discrete mathematics Discussed in the book are topics such as graph theory partially ordered sets geometrical Ramsey theory computational complexity issues and applications

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