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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)

# N5 Electrical Engineering Maths Question Papers

**Walter Andrew Curry**



## N5 Electrical Engineering Maths Question Papers:

Current Index to Journals in Education ,1973      *Applications of Mathematics in Electrical Engineering* William J. Jameson,199?      *Electrical and Engineering Mathematics* Richard Guy Meadows,1981      **Mathematics for Electrical Technicians** John Bird,Antony May,2014-01-21 The definition and solution of engineering problems relies on the ability to represent systems and their behaviour in mathematical terms Mathematics for Electrical Technicians 4 5 provides a simple and practical guide to the fundamental mathematical skills essential to technicians and engineers This second edition has been revised and expanded to cover the BTEC Higher Mathematics for Engineers module for Electrical and Electronic Engineering Higher National Certificates and Diplomas It will also meet the needs of first and second year undergraduates studying electrical engineering      **Modern Electrical Engineering Mathematics** Stigant S.A.,      *Electrical Engineering Sample Exam* James H. Bentley,2003-09-18 Here is a complete 8 hour 24 problem exam with step by step solutions

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established mathematical model repeated modification of the adopted diagram changing its structure or element values in case when it does not satisfy the adopted requirements preparation of design and technological documentation manufacturing of model prototype series according to the prepared documentation testing the prototype under the aspect of its electric properties mechanical durability and sensitivity to environment conditions modification of prototype documentation if necessary and handing over the documentation to series production The most important stages of the process under discussion are illustrated in Fig I 1 xi xii Introduction Fig I

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*Modern Electrical Engineering Mathematics, Etc* Stanley Austen Stigant,1947

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