# DEPARTMENT OF EDUCATION REPUBLIC OF SOUTH AFRICA

The Barrier Street, and the San

NATIONAL CERTIFICATE ELECTROTECHNICS N5 TIME: 3 HOURS MARKS: 100



#### QUESTION 1

1.3 
$$V = 550 V$$
  $P = 44 kW$ .  $N = 1500 rpm$   $\eta = 85\% = 0.85$ 

1.3.1 Input = 
$$\frac{\text{Output}}{\eta}$$
 =  $\frac{44}{0.85}$  =  $\frac{51.765 \text{ kW}}{\sqrt{}}$  | IL = P/V =  $\frac{51765}{550}$  \( \text{ = } \frac{94.12 \text{ A}}{\text{ }} \)

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

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

(4)

(3)

(3)

# **Eletro Technics Nquestion Paper**

Scott C. Dulebohn

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