DEPARTMENT OF EDUCATION REPUBLIC OF SOUTH AFRICA

The Barrier Street, and the San Street

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)

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Thomas Strang

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