## Subjectul C. PRODUCEREA CURENTULUI ELECTRIC

III.a.	DOGENEA CONENTOLOI ELECTRIC
III.a.	2
	$P_{1} = R_{1}I_{1}^{2}$ $I = \frac{E}{\frac{(R_{1} + R_{2})R_{3}}{R_{1} + R_{2} + R_{3}}} + r$
	. E
	$I = \frac{1}{(R_1 + R_2)R_2}$
	$\frac{(\sqrt{1+\sqrt{2}})\sqrt{3}}{D+D+D}+r$
	$I_1 = \frac{I \cdot R_3}{R_1 + R_2 + R_3}$
	$\frac{r_1 - R_1 + R_2 + R_3}{r_1 + r_2 + r_3}$
	Rezultat final: $P_1 = 24 \text{ W}$
b.	
	$(R_1 + R_2)R_3$
	$W = \frac{(R_1 + R_2)R_3}{R_1 + R_2 + R_3}I^2t$
	Rezultat final: $W = 2.6 \cdot 10^5 \text{ J}$
C.	
	Rechiv
	$\eta = \frac{R_{echiv.}}{R_{echiv.} + r}$
	00
	Rezultat final: $\eta = 89\%$
d.	
	$P = P_{\text{max}}$ dacă $r = R_{\text{ext}}$
	Rezultat final: $R_{ext} = 1\Omega$