SISNE LUMB	UNIVERSIDAD DE SAN CARLOS DE GUATEMALA	FÍSICA 2 C	NOTA:
	FACULTAD DE INGENIERÍA		
	ESCUELA DE CIENCIAS	1S2023	
	DEPARTAMENTO DE FÍSICA		
	INGA. CLAUDIA CECILIA CONTRERAS FOLGAR DE	AUX. ANGEL QUIM	
	ALFARO		

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	TS	
	C1 1 C2 P1	
	12 7 A= 0.100m (m= 2.75 n	F
	d= 1+10 m	
a)	Hd X= 5.40	
	-= 1 + 1 => Gz=XE. A = 6 (54)(0,100)	
		13
Ceq	1 C1 C2 d 1+10-3	
1	= 1 - 1 Cz= 4.78 × 10-9 F	
	Ceq Cz	
. 1	= 1 - 1 = 154431342.7 F.	
· Palor Ci	7.75 *10-9 4.78 *10-9	
	= 1 = 6.47 × 10-9 F	
13 0 0 18	154431342.7 C1=6.5 n	F
6) C1.	- V1 = 8750 V U = U6	
	d= 2.50mm, Ad.	
000 3	CN2 = (6.5 × 10-9)(8750)2 = 0.2488 J.	
	2 2	
		1
01=	EOA => dC1 = A => A= (2.5 × 10-3) (6.5 × 10-9))
	d 886	
A - 1	1.8352 m²	
10 1		
(1 =	0.2488 - 54.08 5/m²	
	(1.84)(2.5*10 ⁻³)	
	(1301/(6,0/10))	
1000		
	4 = 54.1 J/m3	-
The second second		

	P. Z.
C	13 TONE E= 10.0V Cy= 4.00 MF
Eq. 1	C1= 5.00 WF C5= 1.00 WF
seres T TE	I Co I Co = 3.00 WF
series T TE	Paralelo C3 = 3.00 16F
C45=11+	$\frac{1}{c_5}$ = $(\frac{1}{4u} + \frac{1}{1u})^{\frac{1}{4}} = 0.8 \text{ mF}$
(C4	C5) (44) Tu)
C12 = C1 4	+ Cr = 5 m + 2m = 7 m +
C312 = 14	$+\frac{1}{C_{12}}$ $+\frac{1}{3u}$ $+\frac{1}{3u}$ $+\frac{1}{3u}$ $+\frac{1}{3u}$ $+\frac{1}{3u}$
1	Guz (2 2 2) - C. M.
	ou the
100-08	u + 2.1u = 2.90 uf Ceq = 2.90 uf
b) C= 0.	=> Q = C45 V Q = (0.8w)(10) = 8 uC Q = 8 w C
J V V	Q= (0.8w)(10) = 8 uC Q= 8 wC
	Q= (0.8 w) (10) = 0 mc Q= 8 w C
9 0312 = 60	CB12 = (10)(2.1m) = 21wC,
11. 21.	
V12 = 2/w	C = 8V
714	F U1: 22.5 u5 3
0 100	12 115 112 2 22
	$11^2 = \frac{1}{2}(5\omega)(3)^2 = 22.5\omega 5$
0 17	P.3
Par= 1.70 × 10	
V= 55.5V	T 6.4
a) no 12.5 - 102	en t= 15 min. t= 15 min = 601 = 900 s
	10010
I = (12.5*	1021) (1.6022×10-19) = 2.22 A.
	(900)
CAT EPA	R= 25 A
R = 55.5	= 25 1.
35.5	
	n=(2.17)/(0.18) =7.7 1×6
b) A= 0.18m2	J= I (1×104) (1.6×151)(018)
20 = 1 × 15 m	
OU TO IN	n= I n: 7.71 *10°3 e/m3
	9171 (1: 1: 1 = 10 elm)



