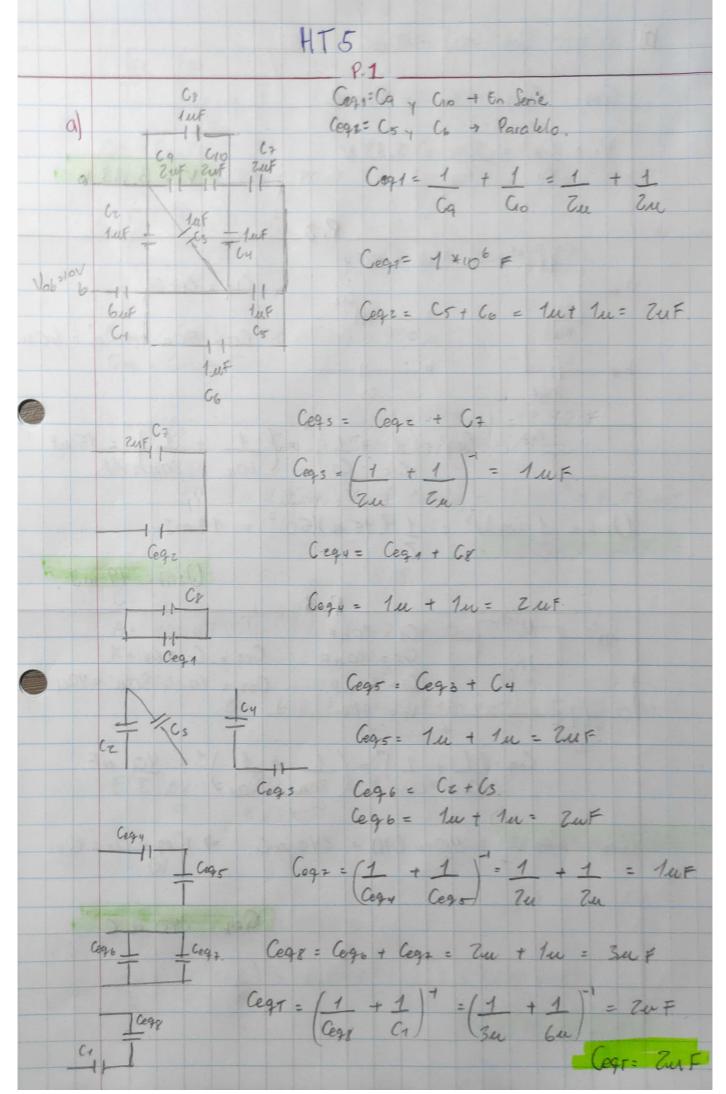
	UNIVERSIDAD DE SAN CARLOS DE GUATEMALA	FÍSICA 2 C	NOTA:
CAROLINA CAROLINA	FACULTAD DE INGENIERÍA		
	ESCUELA DE CIENCIAS	1S2023	
	DEPARTAMENTO DE FÍSICA	102020	NGEL QUIM
THE STENE WINDS	INGA. CLAUDIA CECILIA CONTRERAS FOLGAR DE	ALLY AND	
	ALFARO	AUX. ANG	JEE QUIN

CARNÉ:	201709088	FECHA:	25/03/2023	HT 5
NOMBRE:	Leonel Antor	nio González (García	111 3



Qegr = Qeg8 =	Q1 = 20 W C		
	20u = 3.33 V		
CI			/1= 3.33 V
C1 SOUT	Vab = 50V.	2	
00-10	g Ciz	C12 = 0	int Ca
10 _M F	9 11	C12 = 5	50 u + 10 m = 60e
bo cs 20us	b 11 - C3		
I Ceq.	Coa = (1 + 1	+ 1 1 +	1 = 15 UF
	Ceg = (1 + 1 C10 Cs.	1 60u	2011
Usut = 1 Ceg Av	12 = 1 (15 m	$(50)^2 = 19$	m5
2	2		1 sist = 19 mJ
1100	P.	.3	3107 - 17 110
1103	C1 = 20UF Cz = 10UF	Crs = C	
C3	C3 = 30 u = . Vo = 18 V		out 30u = 40u.
+ 1 - 1			110 1
Cect = ($\frac{1}{c_1} + \frac{1}{c_{13}} \right)^{-1} = \left(-\frac{1}{c_{13}} \right)^{-1} = \left(-\frac{1}{c_$	20m 40m)	= 40 ur.
(Dea = Ceg Va =	40 11 (18) = 2	40 116 =	(Oeg = Q1 = 1022
Qeg = Ceq Vo =	3	60 100	1 4 4 4 5
		Qeg =	240 u C.
		1000	

	9.4
	C1= 50 WF C4 = 12WF.
	(1) LC2 LC2 LC4 C2 = 30UF V0 = 30V.
	T T 111 T C3 = 364F
	C12 = C-7+ C2
	C12 = 50 u + 30 u = 80 uF. C34 = 36 u + 12 u = 48 u F
0	Ceq = (1 + 1) = (1 + 1) = 30 u F.
	Ceq = (1 + 1) = (1 + 1) = 30 a F.
	Vo Vo
	Oer · Ceg Vo = 30 m (30) = 900 mc.
	Deg = O12 = O34
	V34 = Q34 = 900u = 18.75 V
	C34 484
	V34 = V3 = V4
	U3 = 1 C3V32 = 1 (36a) (18.75) = 6.33 mJ
	2 2 2 2 0.02,000,000
	U3 = 6, 83 m J.
	9.5
0)	C= 1200F
	A= 120 cm2 C= KEOA => d= KEOA
	K= 10.2 d. C
	V= 90 V
	d= 6.2 (8.85 x 1512) (120 x 15-4) = 5.487 nm.
	120 410-6
	E = AV = 90 = 1.64 × 1010 V/m.
	d 5.87 ×1059
	5= 1.69 *100 V/m
b)	Q = W
	Q = 120 u (90) = 0.0108 C
	Qid = 10(1-1) - 0.0108(1-1) - 9.058 +10-30
	Qird = Q (1-1) = 0.0108 (1-1) = 9.058 × 10-30
	Q:nd = 9.058 *103e

