

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

