$$w_0 = \frac{1}{\sqrt{Lc}} \Rightarrow w_0' = \frac{1}{\sqrt{L_{12}c}}$$

$$\frac{1}{3 \times 10^{8}} = 2 \pi \sqrt{\frac{-3}{10^{3}} \times \frac{-12}{10^{2}}}$$

$$> = 3 \times 10 \times 2 \sqrt{\pi^2 \times 10^5}$$

$$C = \frac{4 \times 10^{4}}{40 \times 2\pi \times 10^{3}} = \frac{10^{4}}{2\pi \times 10^{2}} = \frac{1}{200\pi}$$

مل بنبك المؤتمت لمبث إلماءة الممترّة من العالب المستدن

سترابطا لب بلتوسط

$$E = \frac{1}{200\pi} C$$

$$E = \frac{1}{2} CU_{max}^2 = \frac{1}{2} \times 20 \times 10^{10} \times (500)$$

$$\frac{1}{2} \text{max} = w_0 q_{max} - -- (1)$$

$$w_0 = \frac{1}{\sqrt{Lc}} = \frac{1}{\sqrt{10^2 \times 10^6}} = \frac{1}{\sqrt{10^8}} = \frac{10^8}{\sqrt{10^8}} = \frac{10^8$$

for = 1 1015 = 1 10 x 10 6 = 1 x 10

2 = 100 x 10 = 35 U X 10 = 1 PX 10 HS

60 = 1

L' = 1 x x x x = 1

10= = 2 to

يزرار إلى شكين بايواب (8)

 $C_0 = \frac{1}{T_0} = \frac{1}{2\pi\sqrt{10}}$ (1) (3) $E = \frac{1}{2} \frac{q_{max}^2}{C} = \frac{1}{2} \frac{16x10^8}{4x10^8}$

C = 9 = 0.4x10 = 2x 10 f

1 - 411 x 10 1 - 0 s

N= 1' 5= 172 20

=> [= 411 X10 -7 -12 112 =>

 $L = \frac{10^{1} \times 0^{12}}{0} = \frac{10^{1} \times 1600}{20 \times 10^{2}}$

L= 8 x 15 4 (1) L= 8 x 10 4

Wo = \(\frac{1}{\sqrt{1} \cdot \frac{1} \cdot \frac{1}{\sqrt{1} \cdot \frac{1}{\sqrt{1} \cdot \frac{1

Umux = 9 = 100 V

(3

= 105 x 106 = 0.1 A (0) 4/1

 $L = \frac{10 \times l^{2}}{0} = 10^{3} = \frac{10 \times l^{2}}{100 \times 10^{2}}$

=> &12 = \(\frac{10^3 \times 100 \times 10^2}{100^3} = 104 => &1 = 100 m

Umac = 9 mac = 4 x 154 = 100 V

E = 2 x 10] البواب (ع) (13

l'= 271 YXN => N= ('

N= 18 211 × 2412 = 1800 = 18 X 3211

9 mus = C x Umus = 102 x 10 = 10 C (c) +141

E & 9 mil = C x Omer = 10 X 10 = 10 C

E = \frac{1}{2} \frac{9}{600} = \frac{1}{2} \frac{10}{512} = \frac{1}{2} \times \frac{10}{5} = 5 x - 1 (A) بابواب (A

= 10 x 10 = 10 C Wo = 1/1c = 1 = 10 radis Imm = wog mu = 10 x10 = 1 A => i = I m " con (wot + ") i=1 con (10+ 1) (0) =1)5, Ima: = Wo 9 mas --- (1) Wo= 1 --- (2) $C = \frac{9}{11} = \frac{0.3 \times 10^6}{3} = 1 \times 10^9 \text{ f}$ L= 471 X10 12 S N= 1/2/17 (S=TIV2 26 $L = \frac{\sqrt{10} \times 0^{2}}{0} = \frac{\sqrt{10} \times 324}{9 \times 10^{2}}$ L= 36x 10 H $W_0 = \frac{1}{\sqrt{36x_15^5} \cdot 59} = \frac{10}{6}$ انوهنه بد ۱۱۱ : الله منوهنه بد ۱۱۱ : Imme = 1 x10 x 0.3 x 10 6 = 0.5 A

to = 1 8 1 12 12 13 8 x 10 = 13 6 x 10 11 5 to: 1/2: 1/10 = 1 Lo= 1 x10 = 100 x 100 = 31 11 x 100 = 1600 MZ (A)-1/4 (6 Wo = 1 => 10 = 1 $\frac{10}{10} = \frac{1}{10} = 20 = \frac{10}{10} = 20$ U= 9 - 106 = 100 (0) = 101 Wo = \(\frac{1}{\sqrt{10}} = \frac{1}{\sqrt{10}^2 \sqrt{10}^6 \sqrt{10}^6} = \frac{1}{10} \rank{10} \rank{10}^5 To = > = 27 VLC -65 = 271 / L x102 => int (F. i 16 = 40 x L x 10 => L = 105 L=103 H (0) = 101 (8 Imag = wo 9 mag --- (1) Wo = 1 = 1 = 1 x 10 ruds => I max = 1 x 10 x 11 x 10 = 20 1 (0) = 11

ائلدرس فراس قلعه جي إجازة في اسلو، الليزيائية والكيميائية دبلوء في التاميل التربوي ٢ ٢ ٢٠ - ٢ ٢ ٨ ٨ ٩٠ -

(15)
$$W_0 = \frac{1}{\sqrt{1c}} = 3 \cdot 10^3 = \frac{1}{\sqrt{1600}}$$
 $10 = \frac{1}{1600} = 3 \cdot 10^3 = \frac{1}{1000} = 10^3 \text{ f}$

(12) $V_0 = \frac{1}{1000} = 10^3 \times 10^2 = 10 \text{ A}$

(13) $V_0 = \frac{1}{1000} = 10^3 \times 10^2 = 10 \text{ A}$

(14) $V_0 = \frac{1}{1000} = 2\pi \text{ A}$

(15) $V_0 = \frac{1}{1000} = 2\pi \text{ A}$

(16) $V_0 = \frac{1}{1000} = \frac{1}{2\pi \text{ A}} = \frac{1}{1000}$

(17) $V_0 = \frac{1}{1000} = \frac{1}{2\pi \text{ A}} = \frac{1}{1000}$

(18) $V_0 = \frac{1}{1000} = 2\pi \text{ A}$

(19) $V_0 = \frac{1}{1000} = \frac{1}{2\pi \text{ A}} = \frac{1}{1000}$

(19) $V_0 = \frac{1}{1000} = \frac{1}{2\pi \text{ A}} = \frac{1}{1000} = \frac{1}{10000} = \frac{1}{1000} =$