2. MI Tehnika vistkog napona grupa A VN otpornik i mapousko sjelilo NN otpornik zastila osobja i ampermetra prignomi otpornik (1) R=200 H.A R = 273 HS iskriste R = 0.5 M.R mikroampermeter za mjerenje struje $\eta = \frac{\ln \frac{r_2}{r_1}}{\frac{r_1}{r_1} - 1} = \frac{\ln \frac{r_2}{r_2}}{\frac{r_2}{r_3} - 1} = 0.46 < 0.8$ G= 18 pm 12= 12 MM 1 = 0.986 $U' = E' \wedge 1 = \delta k_1 \cdot \left(1 + \frac{0.3}{\sqrt{\delta r_1}}\right) (r_2 - r_1) \eta =$ K1 = 30 KV/cm = 0.986.30. $\left(1 + \frac{0.3}{\sqrt{0.98C \cdot 1.8}}\right)$. 5.4.0.46 = 90.02 KV 1/2=03 Van $I = \frac{U}{R} = \frac{90.10^3}{200.10^6} = 450 \mu A$ V', I = ?? $C_{11} = \frac{C_{11}}{4} = 0.15 \cdot 10^{-6} F$ 2 4=80pF $T_{4} = k_{1}R_{1} \frac{\ln Ct}{Cu+Ct} \Rightarrow R_{1} = \frac{T_{1}\left(\text{Cu+Ct}\right)}{k_{1}\left(\text{Cu-Ct}\right)} = \frac{1.2 \cdot 10^{-6} \cdot \left(0.15 \cdot 10^{-6} + 80 \cdot 10^{-12}\right)}{2.96 \cdot 0.15 \cdot 10^{-6} \cdot 80 \cdot 10^{-12}} = 5070 \cdot 9$ T1= 1.2 Ms Ta=50/hs $\overline{I_2} = k_2 Ri \left(\text{Cu+Ct} \right) \Rightarrow Ri = \frac{T_2}{k_2 \left(\text{Cu+Ct} \right)} = \frac{50.10^{-6}}{0.73 \cdot \left(0.15 \cdot 10^{-6} + 80.10^{-12} \right)} = 456.4 \Omega$ (a = 0.6 p. F d1= 2.86 $k_2 = 0.73$ $\frac{1}{1} = \frac{\ln \frac{0.15 \cdot 10^{-6}}{\ln t}}{\ln t \cdot \ln t} = \frac{0.15 \cdot 10^{-6}}{\ln 15 \cdot 10^{-6} + 80 \cdot 10^{-12}} = 0.999$ $N = \frac{\ell U^2}{2} = \frac{QU}{2}$, $U = \int \vec{E} d\vec{\ell}$, $Q = \int \int \vec{J} d\vec{A}$, $\vec{J} = \mathcal{E}_0 \mathcal{E}_F \vec{E}$ 3 15 mm EH= 12 KN/cm We = III DE dA de = EOET JE2dV Er = 2.5 $dWe = d\vec{f}d\vec{\ell} = \frac{\varepsilon_0 \varepsilon_r}{2} E^2 d\vec{A} d\vec{\ell} \Rightarrow F = \frac{\varepsilon_0 \varepsilon_r}{2} \left(\frac{v}{s}\right)^2 A$ $\frac{1}{\sqrt{1 + \frac{1}{1 + \frac{1}{1$ $\frac{\partial E_{H}}{\partial (\hat{A})} = 0 \implies \frac{\Lambda}{\Lambda} = e^{-0.5}$ $E_{M} \min = \sqrt{\frac{2 \xi_{M}}{\xi_{0} \xi_{T}}} \frac{1}{e} \log \sqrt{\frac{\epsilon_{M}}{\xi_{0} \xi_{T}}} = 0.4 \sqrt{\frac{12.10^{7}}{8.854.10^{12}.2.5}} = 9.31 \frac{V}{M} 10^{8}$ Unmin = En min . So = 13.97 KV (3) L1 = 19.5 MH 481= L2C2 => C1 = 6 4F 1/2 4 1 10 months 29 Lz = 4, C1 = 16.479 m H C2 = 7.1 nF $\overline{L_2=?}$ $V_2/U_1=?$

$$2 C_{t} = 88 \text{ pF}$$

$$R_{g} = 2 \text{ mS}$$

$$C_{v} = 0.72 \text{ pF}$$

$$R_{h} = \frac{T_{1} (C_{u} + C_{d})}{k_{1} C_{u} C_{t}} = \frac{1.2 \cdot 10^{-6} \cdot (18 \cdot 10^{-6} + 88 \cdot 10^{-12})}{2.36 \cdot 0.18 \cdot 10^{-6} \cdot 88 \cdot 10^{-12}} = 4609 \text{ s}$$

$$R_{1} = 2.96$$

$$R_{2} = 0.79$$

$$R_{1} = \frac{T_{2}}{k_{1} C_{u} C_{d}} = \frac{50 \cdot 10^{-6}}{0.73 \cdot (0.18 \cdot 10^{-6} + 88 \cdot 10^{-12})} = 380.3 \text{ s}$$

$$T_{2} = 50 \text{ ps}$$

$$R_{1} = \frac{C_{u}}{C_{u} + C_{d}} = \frac{0.18 \cdot 10^{-6}}{0.18 \cdot 10^{-6} + 88 \cdot 10^{-12}} = 0.9995$$

$$Er = 2.8$$

$$Ell = 19.5 \text{ AH}$$

$$C_1 = 7.2 \text{ MF}$$

$$C_2 = 8.52 \text{ pF}$$

$$U_2 = \frac{L_1}{L_1} = \sqrt{\frac{k_1 C_1}{c_2}} = 29$$

$$U_2 = \frac{C_1}{L_1} = \sqrt{\frac{c_2}{c_2}} = 29$$

$$\frac{C_2 = 8.52 \, \text{pF}}{V_2 = ?}$$

$$\frac{U_2}{V_1} = \sqrt{\frac{C_1}{C_2}}$$