$Q_1 = Q_2 = Q_3 = Q$ = . V1 + V2. +. V3. $Q_1 \cdot z \cdot C_1 \vee_1 \cdot \cdots \vee_1 \cdot z \cdot \frac{Q_1}{C_1}$ Q2 = C272 ... V2

aparitoris alt like z Bo Capacitors in Series acts like mosistores in parallel, where curent Dame and Voltage droppi Whereat Capacitorit in famillel acts like Mesilstons in series where voltage. Storts The Same and evirent drops I+ [++] Q= Qi+Qz+Q5 .Q= (V . . Q2C76. -12-13 = E : := / (c₁ + c₂+ c

Energy that its stored in a capacitor Q = (5,7.1 MF) (40 V) = 228.44C

Q:: (14F)(50): 50MC ·Q2 : (94.) (50.) = 200.4. ·Q3 : (54.) (50) = 250.4. The Voltage across the capacitor cannot change in Stantaneously often closing the burter

 $T_{i} = \underbrace{\varepsilon}_{R} \qquad \text{After a long time } t \to \infty$ $T_{initial} \qquad \text{Capretor will get fully charged}$ $At \quad t = 0 \qquad -E + T_{R} + E = 0 \qquad T = 0$ $T_{i} = \underbrace{\varepsilon}_{R} \qquad V_{C}(0) = \varepsilon$ $T_{i} = \underbrace{\varepsilon}_{R} \qquad V_{C}(0) = \varepsilon$