Capacitomo 19 (apacitams is the ability of conductor to storo charge. Capacitamo of a capacitos is definedas the proportion of charge on anyone plate to the P.D. Conaritano in socios total collage: Total capacitano=cs 11=11+V2

Q = 0 + 0 CS CI CZ 去一古古 when 2 spacetos and sommeted in series lower abrows will collect on thom, however the voltage across each of from will be different of capacitos in soils are discharged then the total charge that flower well leelequal to the charge on any one plate. Capacitos in parallel Total charge ar= 21+02 10-a1 TotalVolt=V Oct P Total capacitand=CT  $|CTV = C_1 1 + C_2 1$ CT = CI+CZ when expactions occumposablel, the charge on each of them is different. Housever the voltag agross soch is the same Housing Antotal shares is the sum of the moduled

Muss + + = 0 C=0 + 0 C=0 + = 0 C=0 + 0 C=0 + = 0 C=0 + 0 C=0 + = 0 C=0 + 0 C=0 + = 0 C=0 + 0 C=0 Energy stored in a capositoe = 1 CV reprena corractories charged, it stores electrical inorgy. For example is it is connected to a bullo then the bullo will glow for a shoot while This mans electrical energy has changed into light energy. Timelonstu hischwiging a conacitor 

after time & Q = 20 de to = time token for 67% of the charge on the expactor to discharge energy stored = asa under the graph =1.00.00