Mul Work 11 (A) Electric field = EC = 2.00 x 10-3 V/m Distance = 1mm = 10-3m Ec = 472  $\frac{1}{2} \times 10^{-3} = \frac{(9 \times 10)^9}{4}$ (10-3/3 9= 2 x 10-3 x (10-3) 2 y x 109 a= 2.22 x10-17 Ec at M = 5mm = 5x10 -3 m EL = 1<9 (9 x 10 9) (2-22 x 10-1. (5xx0-3)2 = 8x10 - 5 V/m 5mm 12 8210-3 V/m 8x10-3 = 1060,66m Charge. 9×109×3×10-6 (1066.66) 24 210

AVE 103.X Voltage is regeting rate DV= 103xx Positive V-0=103x N=103x 3x10-3 V=103x V(/U-(+) Y intercept of fun thin is Zero as graph V=103x Starts. trom origin 0 (m) 5lope = m = - 1000 v/m 0×10-3 A) (= E v A = 8,85 × 10. 2 x (U-3 = 4.428×10-134 B) energy = 1/2 (U2= 1/2 x 4.42 +x 10.3 x2 = 55.31×10-13 J to obtain more capactione the ideal connetion would be conneting the identical capacidons in parellel Decarle Capacitance gets add up in

Cnet = C, + (2 = 2c = in series Cnet becomes 0/2 KUL -E2+IM2+IN,-E, +IN=0 -1.5+ ± ( 1 + 9 + 2 + P) - 15 V= 0  $=\frac{3}{51}=\frac{55.56}{ma}$ t - 3V M. + M2 12 2+2+00 P. C. = (55.56ma) 2 + (55.56ma) 2 + tere are mA (55,56mA)2x50 154,34mw = 6.17mw+ 6.17mm = 777.51 m woth PR = 154, 34 mmats PArryll Vx -1.5 x Vx-1.5 - 0 25/2 -37. 5-37. 6 -37. 6 - 0 50 VX= 1,47 volts I, = 1,5 -1,47 = 15 mamp J 1 1,5-1.47/2=15mamp I= t, + t = -15mA + 15mA -30 mA.

T. P.C = (15m)22 + (15m)2x2 + (30m)2x50 = 0.45 mw + 0.45 mw + us mw = us, n mw/ well don Dr = IZE (30m)3 x 20 45 mw 2) pels-a millistands potential has versus time 10 A) polse width in millrecolls is 2mo B) Prace to peace voltage in millivolts = 40 - (-7 <) - NO 175