Part (1) END 9) 8 RC Circint 0 · Notes · What (RC) Hears P Den Capasitor ? Resistor ( Orsing lation Capcisitor ap Con 3 2 (Le sur Maplenez 2) ? Note: at this Experiment تر الموردان ه مله voltage is Direct (DC) Viley Tilic, Meas ميشين المواسع تدريجياً حتى بيصل أعالة يمة لد عندما يصبح خرق الجهد بين مساوياً لفوت الجهد بين طرف العطارية . لو حداث تدريخ تدريجياً right ألفهتي بطهف العطارية الوحدات تيناع تدر C V->voltage charge Capasitance · Capasitance unet = Colum / Vol Farad

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Part III Charging a الجمهم الأرك )؛ شعن المواسع :  $= CV_0 (1 - C)$ From equation 1 : 9=CV AD3 SR  $QV = QV_0 (1-e^{t/RC})$ Hak voltage at voltage anatime  $V = V_0 (1 - C)$ -when  $(-t) = \infty$  $V = V_{0}$  $V = V_{0}$ -ACIRC >.57 when (-+) = RC V= .65 Vo Graph (1) at t= RC= t stime constant volt, (V) 65 No (+) (sec tc = t charge to

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Part (3) 3	11- Apg Ili
121 Dischargings $-t/AC$ $g = C V_0 C$	
we had CV= CVo C	
Removed $c$ The $TR$ $V = V \circ P$ Voltage source $v = V \circ (.37)$ $V = V \circ (.37)$	
$V_{\circ}$ $Z_{T} = \frac{V_{\circ}}{T}$ $T = t_{D} = t_{D} = t_{D} = t_{D}$	
medritically: to = te Mote we Drow each Graph 1 and 2 o The linear paper.	ŧ

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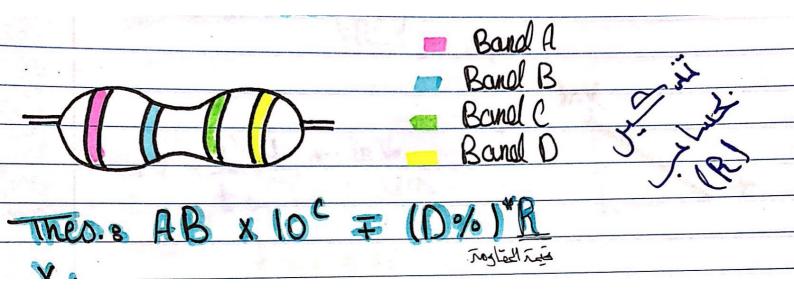
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servilog Drawling paper P 0  $V = V_{0} C$ Took  $lnV = lnV_0 +$ = t-slope Inv lnV = ( $- + \ln V_{o}$ X-avin (-aris The slope

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Calculations : t (Average) = ts +tc+td 5 The unco = -FOM Capitor (C) Ine unco = sc NR R

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