

General physics lab 202

Student's name:.....

Student's number:.....

Experiment 7 : Charging and Discharging Capacitors

Charging Capacitors

<i>Time (s)</i>	<i>V ()</i>
0	
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	
110	
120	
130	
140	
150	
160	
170	
180	
190	
200	

Discharging Capacitors

<i>Time (s)</i>	<i>V ()</i>
0	
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	
110	
120	
130	
140	
150	
160	
170	
180	
190	
200	

General physics lab 202

Note:

$R = 15 \text{ k}\Omega = \dots\dots\dots \Omega$

$C = 1000 \mu\text{F} = \dots\dots\dots \text{F}$

Theoretical:

$t = RC = \dots\dots\dots$

Experimental:

$V_0 = \dots\dots\dots$

$0.63V_0 = \dots\dots\dots$

$t = \dots\dots\dots$

Note:

$R = 15 \text{ k}\Omega = \dots\dots\dots \Omega$

$C = 1000 \mu\text{F} = \dots\dots\dots \text{F}$

Theoretical:

$t = RC = \dots\dots\dots$

Experimental:

$V_0 = \dots\dots\dots$

$0.37V_0 = \dots\dots\dots$

$t = \dots\dots\dots$