

### **Sample Data: Physics Lab 1, Experiment # 6**

- In the experiment, resistance,  $R = 47 \text{ K}\Omega$  and capacitance,  $C = 2200 \text{ }\mu\text{F}$ .
- Maximum potential difference,  $V_m = 6.1 \text{ Volts}$ .

<b>Time t (sec)</b>	<b>For Charging V(t) (Volts)</b>	<b>For Discharging V(t) (Volts)</b>
0	0	6.1
30	1.4	4.7
60	2.43	3.66
90	3.2	2.84
120	3.8	2.23
150	4.52	1.73
180	4.64	1.38
210	4.93	1.09
240	5.16	0.87
270	5.32	0.69
300	5.7	0.56
330	5.59	0.45
360	5.68	0.37
390	5.75	0.3
420	5.8	0.25
450	5.84	0.2
480	5.88	0.17
510	5.92	0.14
540	5.94	0.12
570	5.96	0.1
600	5.98	0.09