

General physics lab 202

Student's name:.....

Student's number:.....

Experiment 2 : Basic electrostatic system ( Capacitance)

1: V Measured, Q Variable, C Constant

Note :  
 $\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$

$d = 2 \text{ mm} = \dots\dots\dots$

$r = \dots\dots\dots$

$A = \pi r^2 = \dots\dots\dots$

	$C = \frac{\epsilon_0 A}{d}$ (.....)	V (.....)	Q = CV (.....)
1			
2			
3			
4			

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2. Q Measured, V Variable, C Constant

$d = 6 \text{ cm} = \dots\dots\dots$

$r = \dots\dots\dots$

$A = \pi r^2 = \dots\dots\dots$

Note :

$\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$

$C_E = 25 \times 10^{-12} \text{ F}$

<b>V (volts)</b>	$C = \frac{\epsilon_0 A}{d}$ (.....)	$Q = CV$ (.....)	$V_E$ (.....)	$q_E = C_E V_E$ (.....)	$\frac{q}{Q}$
<b>1000</b>					
<b>2000</b>					
<b>3000</b>					