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| **EP 108 REPORT PAPER** |

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| **EXPERIMENT NAME:** RC CIRCUIT**EXPERIMENT NO:** **STUDENT NAME SURNAME:****STUDENT NUMBER:****DEPARTMENT&EDUCATION TYPE:** |

**RC CIRCUIT EXPERIMENT DATA:**

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| **t (sec)** | **Vc (Volt)** |
| 10 | 1,75 |
| 20 | 2,81 |
| 30 | 3,62 |
| 40 | 4,17 |
| 50 | 4,57 |
| 60 | 4,85 |
| 70 | 5,05 |

R= 100kΩ

C= 220μF

Vpowersupply = 5V

**CALCULATION**

1. Calculate theoretically capacitor voltage (Vc ) at t=10sec ,t=40sec, t=60sec for charging phase. (Hint: Vc = Vpowersupply (1-e-t/RC)
2. Calculate percentage error of Vc  for t=60sec by using experiment data.