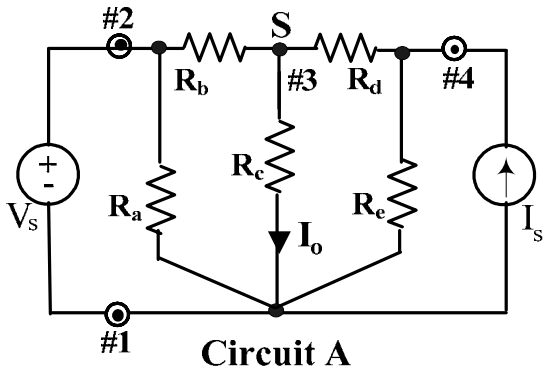
DATA TABLES

[To be cut out & **pasted** into the Report booklet]

SUPERPOSITION



Circuit A

Steps 1, 2 & 3:

Resistor values used: R_a = …… Ohms, R_b = ……Ohms , R_c = ……Ohms

R_d = ……, Ohms, R_e = ……Ohms

Source values used: V_s = …… volts , I_s = ……,mA

Step 4:

(a) With both V_s and I_s sources connected, I_o = ……, mA

(b) With V_s acting alone, I_{o1} = ……, mA

(c) With I_s acting alone, I_{o2} = ……, mA

TEC/NEC/MPT

Step 6 :

Draw the circuit selected in the space below and indicate the R values used.

TA Signature : ……..

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Step 7 : Calculate the theoretical values for your circuit (chosen from circuits B to E in Figure 2.5):

Calculate the value of V_T/V_s & of $R_T = R_{41}$ with terminals #1 & #2 short-circuited
[after disconnecting V_s !]

Theoretical V_T = …….(V_s) ,volts Theoretical R_T = ……. Ohms

Steps 8 to 9: (**Experimental** values)

Actual value of supply voltage V_s = ……., volts

Open-circuit voltage $V_{ab}(oc) = V_{41}(oc) = V_T$ = ……., volts

Short-circuit current $I_{ab}(sc) = I_{41}(sc) = I_N$ = ……., mA

(Step 10) : R_{L3} (= R_{mpt}) = ……Ohms

TABLE A: Data for MPT verification
[$R_{L1} < R_{L2} < R_{L3} < R_{L4} < R_{L5}$]

Load Resistance Value R_L Ω [Calculated from Pot Dial Setting]	Measured Load Voltage $V_{ab} = V_4 = V_L$ volts	P_L (expt) [from measured V_L] mW
R_{L1} =……..		
R_{L2} = …….		
R_{L3} (from Step10) = …….		
R_{L4}= ……		
R_{L5} = ……		

TA Signature : ……..

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