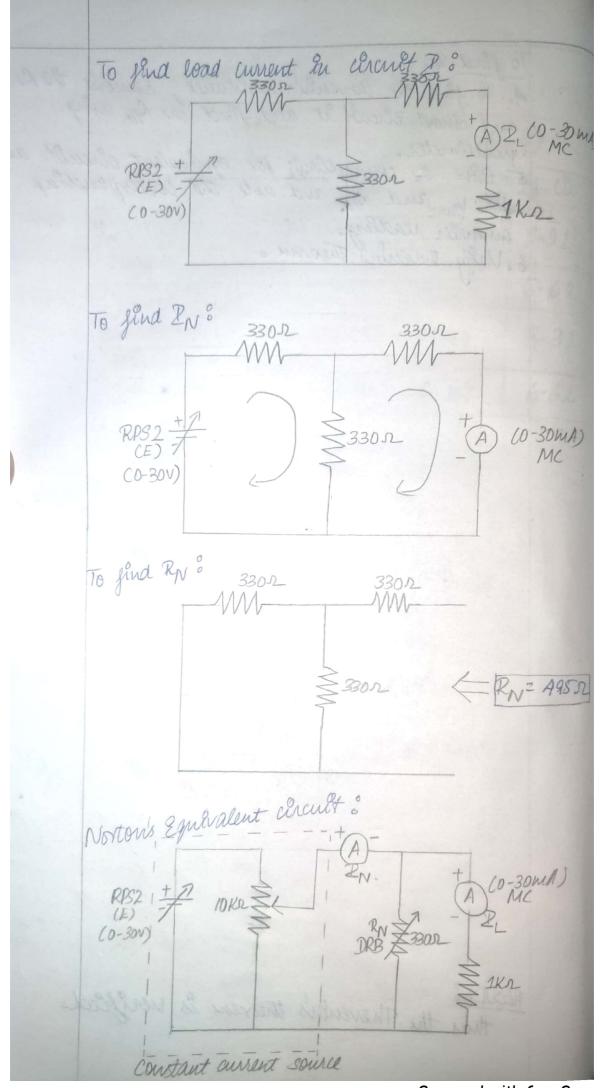


10 20 10 20 Lulation 19 Rah 10 660 200	4.95	5	3.34 6.69 3.54 6.69	1
10 20 10 20 Lulation 19 Rah 10 660 200	4.95 9.9 4.95 9.9 9.9 9.9 0.01	4.95	3.34 6.69 3.54 6.69	3-31
20 20 20 Lulation 19 Rah 20 660 200	9.9 4.95 9.9 ou: = 4902 0.01.	4.95	6.69 3.34 6.69	6.62
10 20 Lulation 19 Rah 10 660 200	4.95 9.9 ou: = 4952 0.01.	4.95	3.54	3-37
leulation - 660 = 000	909 Ou 8 = 490D 0001	4095	6.69	
leulation 1 Por 10 10 10 10 10 10 10 10 10 10 10 10 10	0003 = 490D 0001		DES THE STATE OF SECURITIES	6.62
10 5 660 2 00	= 49072	5		
= 20 = 600 = 00 Ym Rn + R	2 457.	0 330 ² 9 1 2 1000	6.62mib	
	Pgn + R	7m = 7957	m = 495+1000	My Control of the state of the

10 find By A. To good the therewise's resistance, remove the RPS and short circuit it and find the Rh using multimeter. So Grave the connections for equivalent circult and set you and Ron and note the corresponding ammeter reading. 6. Very trevended theorem. RESULT: the thevenor's theorem is verified.



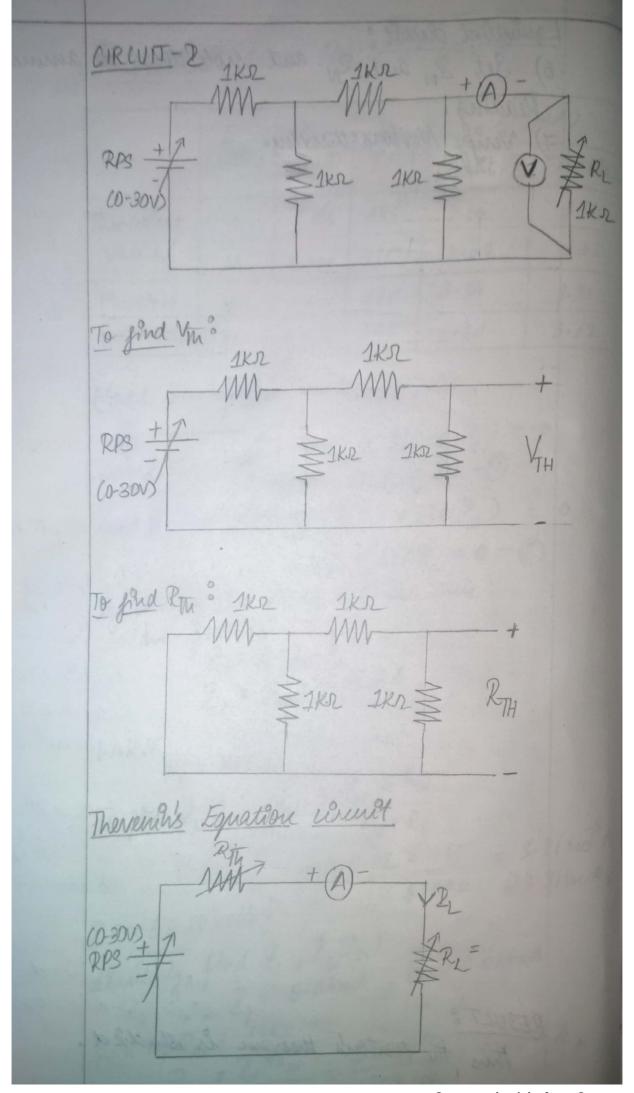
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	Expt30	(h)								
		VERIFICATION OF NORTON'S	S THEOREM	10						
	10010									
	To verify Norton's theorem for the given circult. APPARATUS:									
			1							
	No.	Apparatus	Range	Quantity						
		Annieter	(0-10MA) MC (0-30MA) MC	1						
	2)	Resistor	3X0 110	21						
	3)	RPS (Regulated power supply)	(0-30V)	2						
	5)	Bread board Wires	-	1						
			doubt bed	Required						
	Any linear, bilateral, active two terminal netse can be replaced by an equivalent current source									
	can be replaced by an equivalent content source									
	Can be replaced by all Norton's restance (RN). (IN) An parallel with Norton's restance (RN). PRECAUTIONS: 1) Voltage control knob of RPS should be kept at number of RPS should be kept at 2) control knob for current of RPS should be kept at 2) control knob for current of RPS should be kept at 2) control knob for current of RPS should be kept at									
	1) navanue postetion.									
	2) 0	outral knot for curely of	CAS CONTRACT							
	m	aximum position .	A 0	19-12-1						
	PROCE	DURE:	per circult	diagram o						
	2) Connections are given as per circult déagrant. 1) connections are given as per circult déagrant. 2) set a particular value en RPS and note donce 2) set a particular value en RPS and note donce 2) set a particular value en RPS and note donce 2) set a particular value en RPS and note donce 2) set a particular value en RPS and note donce 2)									
	2) Set a paris									
	the animater readings the side of the animate and short concenst To And En To Remove the load restrance and short concenst To remove the load restrance and short concenst									
	Jo Mi	na En the load resistance	and const							
	3) K	torninals.	be down the	ameneter						
	3) Remove the some RBS voltage note down the amenetar 4) For the same RBS voltage note down the amenetar									
	rea	day.	0. 4. 10	ungual &						
	To fin	day es and snort circumore es load and note	do not the	Rayoss						
	0 11/1/1	NATUR COL	coion ou							
	the	2 terminals								
	1	Control of the late of the lat								

					(3/10)	AND THE	
Theora	etic	al an	d Pra	rctical	values	334	
	E 2N RN 2 CMA, (VOLA) (SZ) CONNET DE						
		(volt)	(mA)	(52)	Circuit 2	Eg. con	
Theoretic		10	0.010	A95	3-34	3.31	
value	3	20	0.020	495	6.69	6.62	
Practice		10	10-010	495	3.34	3.31	
value	LB	20	0.020	495	6.69	6.62	
By Man Loop & Loop & W. K. To fine & Sunda	lesh = 2 Nonge g RN 2 = 2 Nyg	2 4952 2 2 2 2 2 4952 2 4952 2 4952 2 4952	202, -22 3302, 602, -22 3302, 02mA 02mA 02mA 02mA 02mA	+ 330 33022 = 3) + 3 † 6605 ramers 2MA PN RT R 0.02 N 495 # 2N) 1A, 2	20-0 30(2 ₂) P2 20-6 rule 495 2 1000 2:	3.31 ma,	

6) Set ZN and RN and note down the ammeter Egnivalent cercuit: Reading.

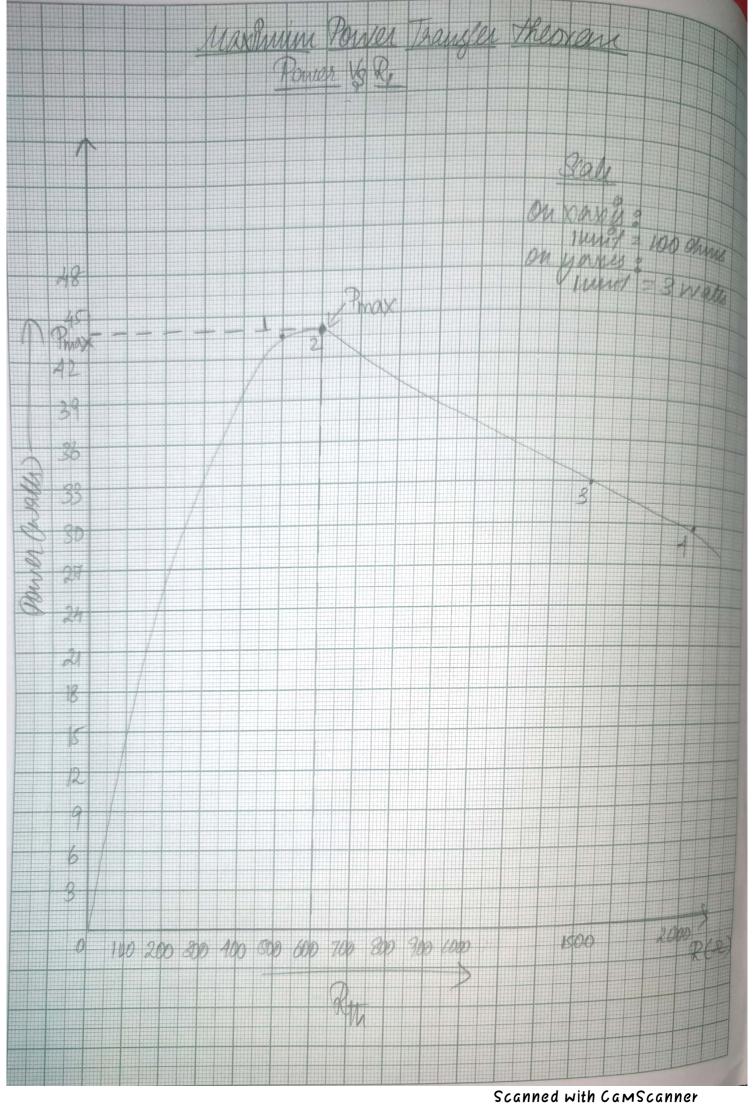
7) Verify Norton's theorem. thus the Norton's theorem is studied.



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E	Expt3(c)							
MAXIMUM POWER TRANSFER THEOREM								
NYM ®								
To verify maximum power transfer theorem								
yor the given circuit.								
1	APPARATUS REGUZIEED:							
		Apparatus	Range	Quantily				
	01)	RPS	(0-30 V)	1				
	02)	Voltmeter	(0-10V) MC	1				
-	03)	Resistor	1KI, 1.3KI,30					
303	04)	DRB (AM) & COL	JY _ OVI-ST	1				
210	05)	Briad Board & wires	12 - 4a	As Required				
	STATE	MENTO	2+ 4					
1000	On a linear, bilateral circust the max, power with be transferred from source to the load							
8.88	with be transferred from source resistance.							
1-61	PRECAVIION? 1) Voltage control knot of RPS should be kept at 1) Untrum point. 2) Current control knot of RPS should be kept at mashmum point. PROCEDURE: CIRCUIT-2 Connections are given as per the diagram & det a particular voltage on RPS. a particular voltage on RPS.							
1)								
2)								
~)								
	CIRCI	JIT-2	the diagra	in & del				
2)	Conne	itions are groupe on RPS	·	919				
	a par	Re and note down the	Corresponde	7				
2)	Vary	eter and voltmeter reading.	ing.	E dabulate.				
2)	Pages	eter and voltmeter reading.	value of &	2, .				
3)	Cally	the procedure for diff. Lete the power for each	e ville g					
4)	To 19	d VTh : land determine		0 A.				
0	Pour	we the load, determine we wing multimeter V	the open c	trent				
5)	, Alto	100 using multimeter 4	Cocanad	with Camscan				

Po	wer	V8 RL PMAX	THUM POWER		A
		(wath)	RTh R	Cr>	
0	ZRCUZ	7-2			
SZ	2·No	RCD	2 (mA)	Volt	P= V2 cwatts
100	01)	500	2.09	10	41:314
e loon	52)	600	8.3	10	41=337 CMax.
-	53)	1500	4.76	10	33.986
5 0	24)	2000	3-84	10	29-491
				alushum co mashama a ar e alle	(3)
عادم					
9					



10 find Rm 8 6) Remove the load and short carment the voltage Source CRPS). F) Find the looking back resistance (RM) ushing multimeter. Egnivalent chent : 8) Set the using RPS and Rome using DRB and note down the animeter reading.
9) Calculate the power delivered to the load. (0) Verly maximum ponde transfer theorem.

	VIII (V)	Pm (R)	De ComA)	PChil
Theoretical Value	2	600	8.3	A1.334
Practical	2	600	wolf devi	11.334
Run =	8x = 20 x = 4V 1000 x 1000 x 1000 2000 2000 2500 Went throws 7) = 8-8 m	4 = 2N $= 500$ $= 600$ $= 600$ A lead	2	
power thro	= (10)2 Rm = 8.3 × 8.3 => 41.334 m	N 600		

