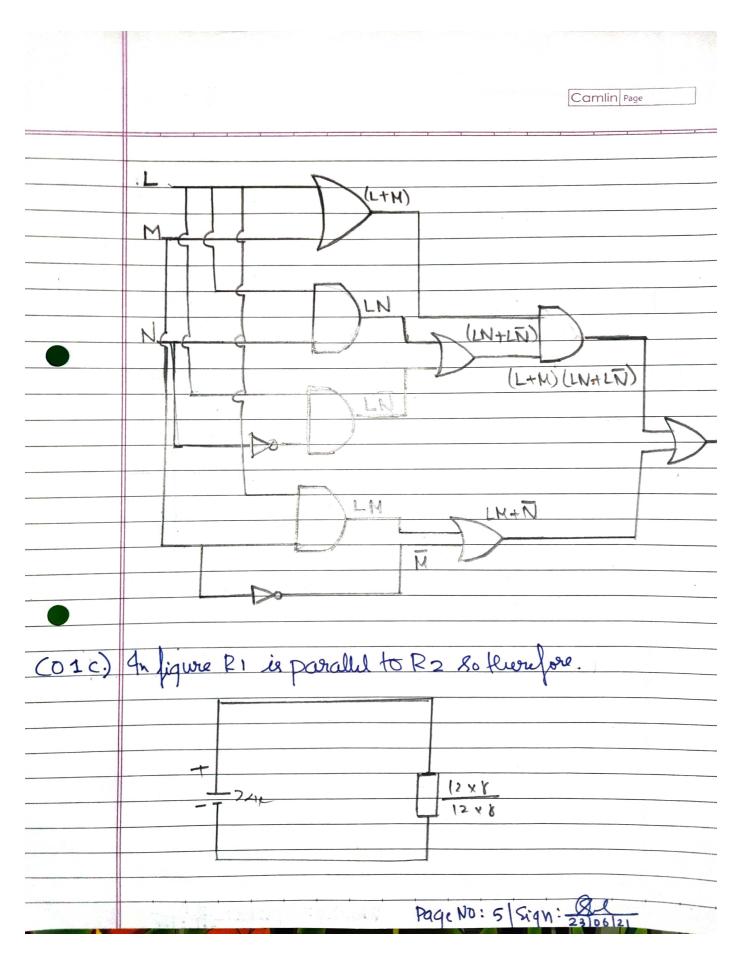
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7. N. J.	G.H. RAISONI COLLEGE	OF ENGINEERING AND		
	MANAGEMENT, WAGHOLI PUNE			
	CAE -1 SUMMER 2021			
1	the man through the start of a segret programme a track in the field of			
,	Department: FY B TECH	Torm Sution - II		
PNAT	Date of Enamination: 23/06/2	in the state of the state of		
Kennik !	Subject Names Coole: MODELING OF DIGITAL CIRCUITS WE			
	ROLINO: CTO Name: SI	WAYAM TERODE		
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	And the second s			
oil illy				
Col a.)	The KCL law States that,	in a closed wram the		
	The KCL law States that, in a closed circuit, the entiring current at node is equal to the current at node is equal to the current leaving the mode.			
	is equal to the current lea	bug the mode.		
	3	- 11 , - 1 10 8 10 10 1		
3.11	T ₅	V		
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	74 × T2	\\\2		
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And the second		and the great many that the		
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	kirchnifi first Law.			
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4 1				
District		E-V1-V2-V3=0.		
- 4		Kirchoff's Second Law.		
		Page: 01 Sian: 23/06/21		

	Camlin Page
	Kirchhoffe laws many deal with voltage and avoient in
	the electrical circuits
	(
(OI b.)	Passive divides or components do not generate energy, but can store it or dissipate it. Passive devices care the main components used in dutronics such as resistors, industors, capatitors and Franspormers which together are required to build any electrical or electronic circuit.
	can store it or diesi pate it.
	Passive devices we the main components used in dutronics
Receipting :	sule as resistors, industors, capacitions and Prans primers
	which together are required to build any electrical or
	electronic circuit
	Proporties: Passive devices do not provide gain, amplification or directionality to a circuit but instead provide attenuation as they always have a gain her than one, unity.
	attenuation as the abusine Mire a gain less than one
	mity.
	Passire durius can not quiorate, oscillate or amplify an electrical signal.
	elutrical liqual.
	The components one labeled in circuit diagram as Rs, Go and Ls, resp.
	and Ls, rigp.
	And in the line of
	An most circuits, they one connected to artice clements, typically suniconductors devices such as simplifiers and digital
	logic Chips.
	logic coups
(02 a.)	K-map also known as Karnanah mass simplication
	K-map also known as Karnaugh maps Limplification tulmique is limpler and his error-prone compared to
	other methods.
the state of the s	46 prevents the need to remember each and every Bookean
	Ab prevents the need to remember each and every Bookean engression) algebraic theorem.
- And	Page:02 Sign: 22/104/21

			Camlin Page		
	The K-map reduces the need talzing advantage of human k-maps are held to convoit	for entensive of pattorn - re the truth tall	calculations by cognition pattone.		
(O 2 b)	Easy and limple basic rule for the simplification. b) De Norgan Law for there input P, Q and R is:				
	P+Q+R = TAND. P.		,		
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P. Q. P		
	From the above that table wel	nauwified	=)		
	Isly us prove for P.Q.R = P +Q+P.				
	Total Supplies of Collapses	page: 03 Siqn	: 81		

	Camlin Page
	P Q R P.Q.R P.Q.R P Q R P+Q+R O O O O O I I I I I O D I O I I I I O I O I O O I I I I I O I I O O I I I I
<i>(.)</i>	Logical Equation given is F=(L+M) (LN+LN) TLM+M
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Camlin Page
SONDW, IT = V
$T = 24 = 24 \times 20 = 480$ $q_{6} = q_{6}$ $q_{6} = 5A$
Henre the current in the ciarcuit is 5 p.
well-william of the second of
Page NO: 6 Sign: 23/08/21