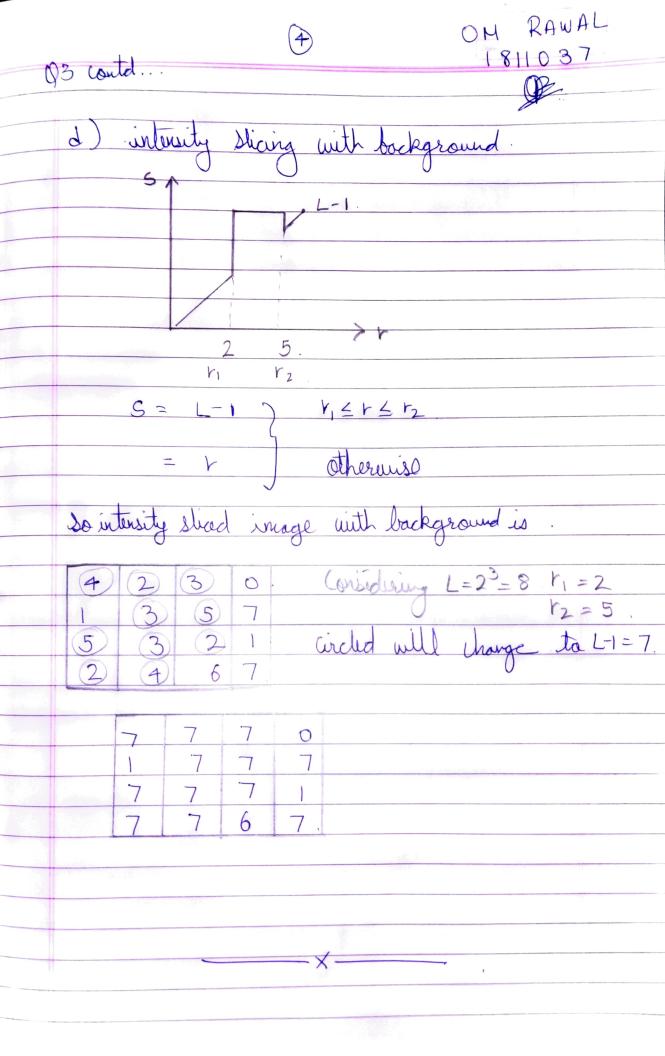
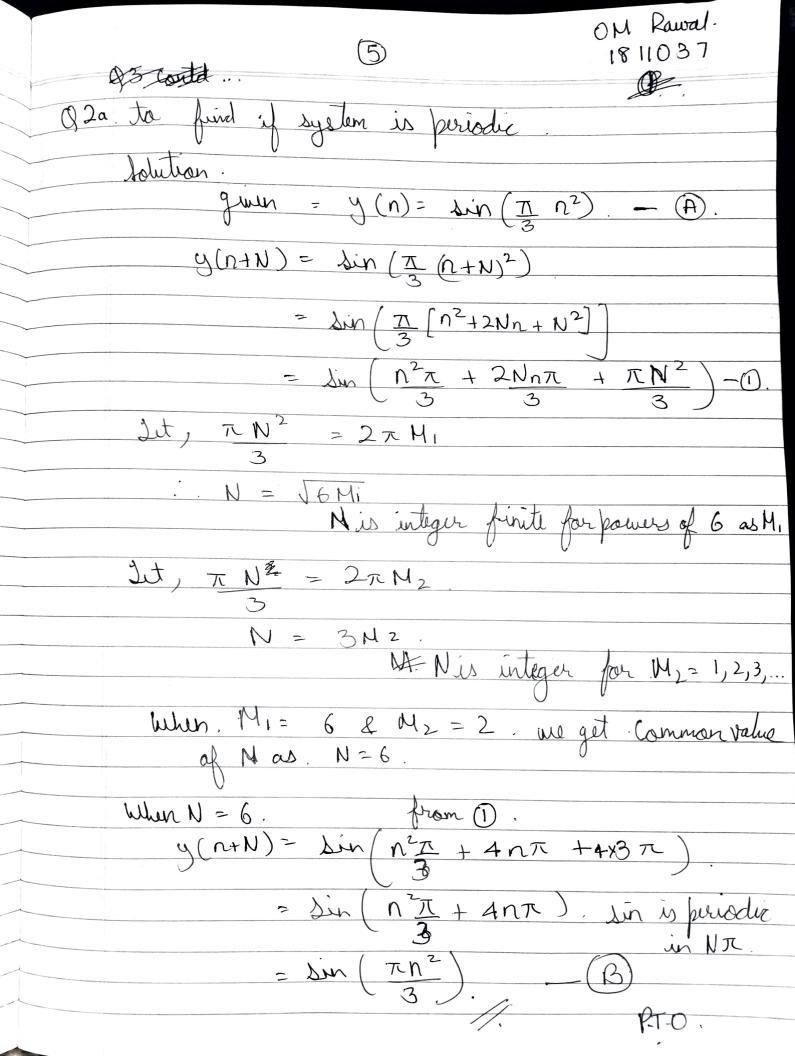
1 Total 8 pages 8/3/21 DSIP ISE OM RAWAL 1811037 OP-01 1.1 b) r(n-4) 1.2. Causal 1.3 linear, time invariant. 1.4 b 81920 : 128×128×5 1.5 a Planes 4,5,6,7 has Maximum Value. PT.O.

				0 N RAWAL 1811037
03.	ab	the image	is 3 RB RP	P. 1 - 23 - 8
	a) TI	0	ال ظرم ك	$P \cdot L = 2^3 = 8$
	a) The	resholding	•	
		5 = 0	r < T	
			$V \geq T$	
	r	5	Hore T = 4	
	4	7	, in 14	
	2	0	image after	thresholding is
	3	0	- 0	
	0	0	700	0
		0	0 0 7	7
	3	0	700	0
	5	7	077	7
	1	7		
	5	7	- Special	
	3 2	0		
	7	0		
	1	0		
	2	0		
	4	7		
	6	7		
	17	1.		
				P.T.O.
				1-1-0

(03 contd b2) Bit plan	3 slicing	with MSB	-18	81103	WAL 57
	binary.		0 011 1 101		bels in
MSB p	ane.	0	LSB p	lane	
c) Negation S=(L S \$ 7-4.7 7-1 7 7-5 7 7-2 7	-1-r). $-1-r$). $-1-r$). $-1-r$). $-1-r$). $-1-r$).	7-0 5 7-7 7-1	P. L=2	8 = 8	
Negative i		3 5 6 4 6 4	4 7 2 0 5 6 1 0.		





OM RAWAL	-,
6	
Line Vines (1)	
Luge Since y(n) = y(n+N)	
Linge Since $y(n) = y(n+N)$ from $A & B$.	
The given signal is periodic.	
the given signal is periodic.	
Q_{2b} .	
$\chi(n) = \begin{cases} 1, -2, 3, +, -1, 2, 2, 3, -2 \end{cases}$ $-2 -1 0 1 2 3 4 5 6$ $\chi(n) = 3 \chi(n) = 3$	
-2 -1 0 .1 2 3 4 5 6.	
$\kappa(s) = 3$	
$\mathcal{L}(1) = 4 \qquad \mathcal{L}(6) = -2.$	
$\chi(2) = -1$, $\chi(-1) = -2$.	
2(3) = 2. $2(-2) = 1$.	
$\chi(4) = 2$	
$2(-9 = \{-2, 3, 2, 2, -1, 4, 3, -2, 1\}.$	
3 -2 -1 0 . 1 2 .	
even component = n(n)+n(-n)	
7	
, h	

Odd component = n(n) - n(-n)

PTO.

0 $n(n) + n(-n) = \{-1, 1, 5, 6, -2, 6, 5, 1, -1\}$ $\frac{n(n)+n(-n)}{2}=\underbrace{\{-0.5,0.5,2.5,3,-1,3,2.5,0.5,0.5\}}_{2}$ n(n)-n(-n)={3,-5,1,2,0,-2,-1,5,-3} $\frac{\chi(n) - \chi(-n)}{2} = \frac{5!5}{2!5!}, \frac{-2.5}{5!5!}, \frac{0.5}{10!5!}, \frac{0.5}{10!5!}$ · Even signal is · 2(n) + 2(-n) $2(n)+2(-n) = \{-2,3,2,2,0,2,6,2,0,2,3,-2\}$ n(n) + n(-n). = $\{-1, 15, 1, 1, 0, 1, 3, 1, 0, 1, 1, 1.5, -1\}$.. Odd signal is $\chi(n) - \chi(-n)$ $n(n) - n(-n) = \{2, -3, -2, -2, 2, -6, 0, 6, -2, 2, 2, 3, -2\}$ $\frac{n(n)-n(-n)}{2} = \begin{cases} 1,-1.5,-1,-1,1,-3,0,3,-1,1,1,1.5,-13 \\ -6,-5,-4,-3-2-1 \end{cases}$

PTO.

ON RAWAL.

