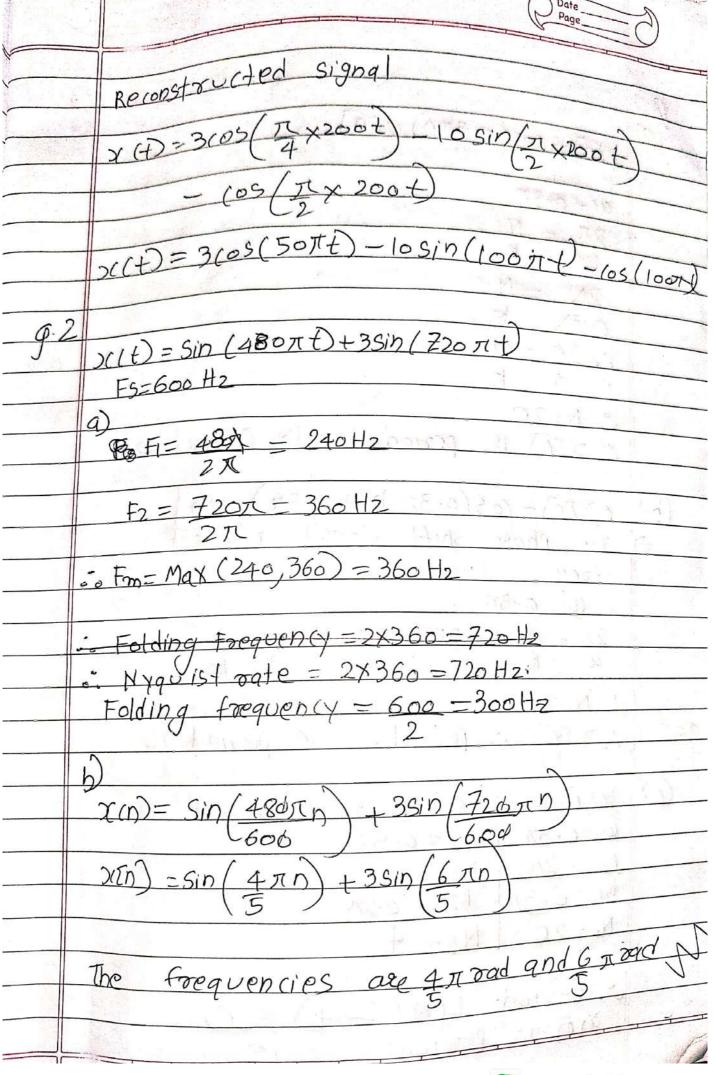
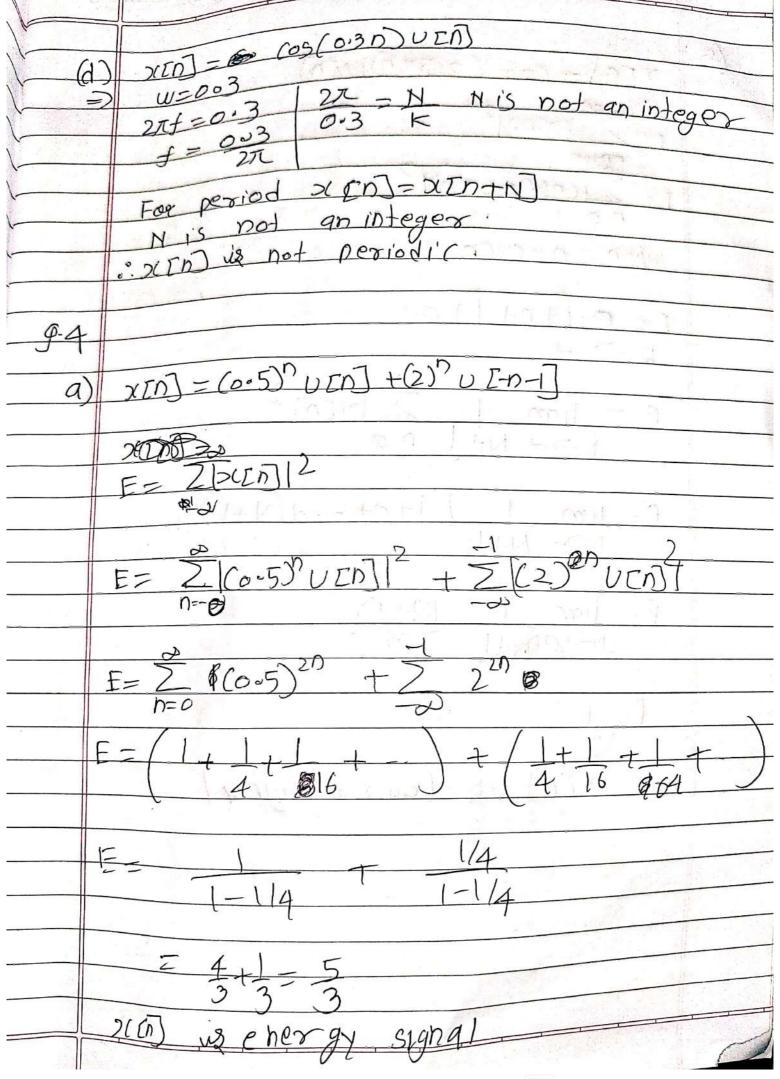
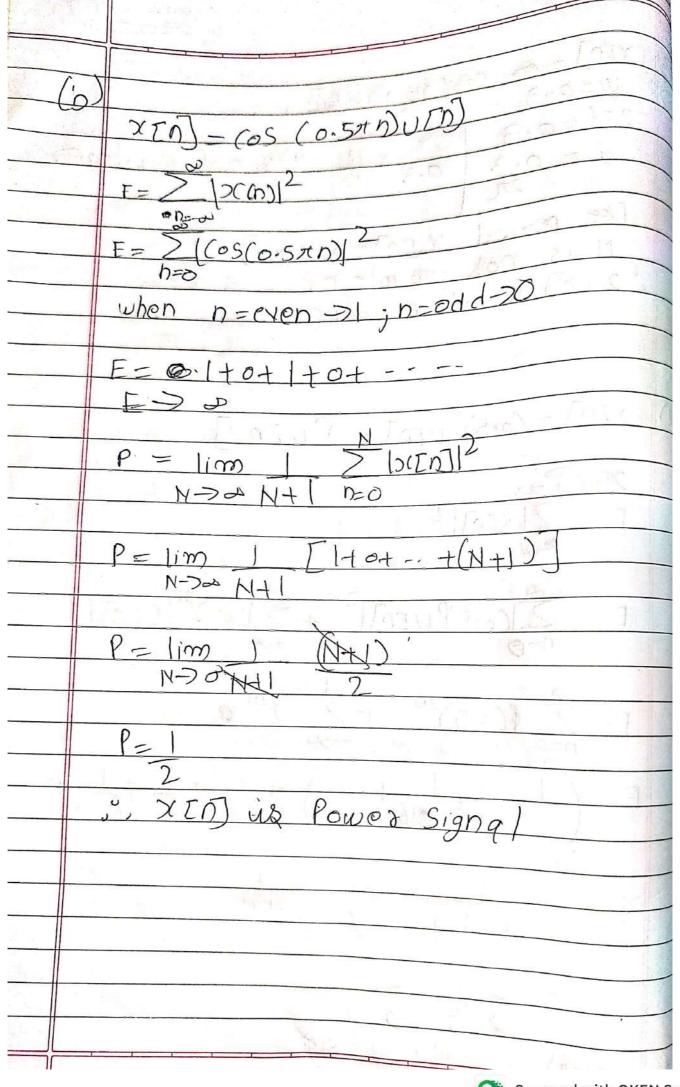
<u> </u>	Assignment I	
QÚ		
	$\frac{\chi(t) = 3(05(50\pi t) + (05)\eta(300\pi t) - (05(10))}{-9(100)}$	
1	- Given	
	Fs=200 Hz	
	$\Sigma(n) = 3\cos\left(\frac{50\pi n}{200} + \frac{10\sin(360\pi n)}{200}\right)$	
	- (05/1007n)	
<u> </u>	200	
	D((n)=305 (In) 1105(n/37n) - (05/7n)	
	(4)+10311(2)	
	x(n) = 3 (05 (7/4n) - 10 sin (7/2n) - cos (7/2n)	
(b)	A STATE OF THE STA	
	$F_1 = 5 \circ \pi = 25 H_2$	
	27	
	$F_2 = \frac{300\pi - 150 \text{Hz}}{2\pi}$	
	$F_3 = 100\pi - 50H_2$	
Max (25, 150, 50) = 156 Hz		
Fm=150 H2		
	BFOR succes full reconstruction	
-	F5>> 2 Fm	
	: 200 > 2×150	
	2007, 300 (Not true)	
0	Reconstruction is no	
	Reconstruction is not possible	
	Cannod with OKEN Scan	

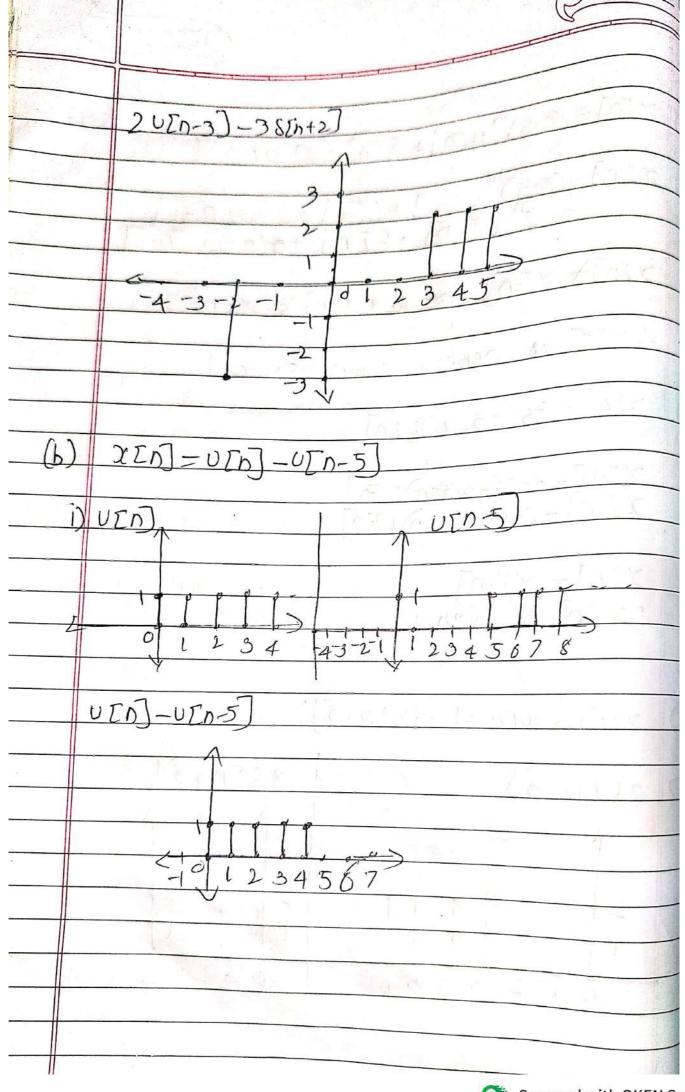


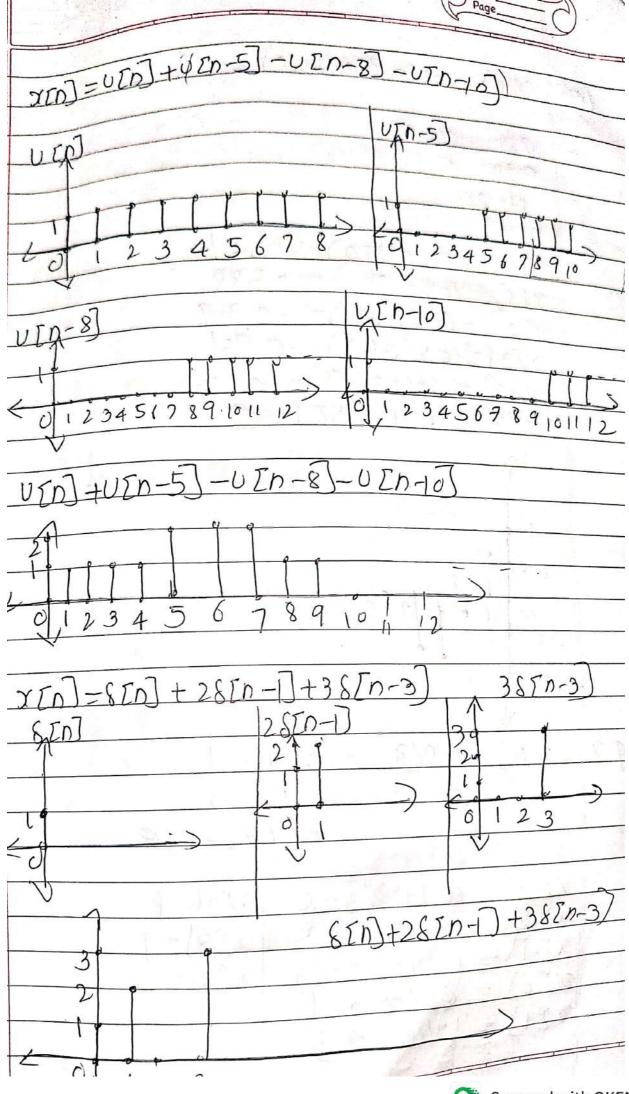
9	
(a)	
	$X[n] = \cos(o \cdot 3\pi n) \cup [n]$
	Mark Commence 1997
	$\omega = 0.37$
	271 - N
(American)	Water Karly and the same of the
	2x - N
	の3x K
	0.0 20 - N
	3 +
	N=20
	= N=20 = XID is periodic with period 20
(b)	6 X [n] = (0 S (6-31 b + 6-51) U[n]
	0 /(LD) = (05(0,2)/ 1) +0 )()
= =	The phase shift does't affect
	1009
3	·. W=0+3π
	$\frac{2\pi - N}{\omega} = \frac{2\pi - N}{\kappa} = \frac{2\pi - N}{3\kappa} = \frac{N}{3\kappa}$
	W K 0-371 K 3 E
	J° N=20
504	o sign) is periodic with period 20
-51	
(6)	$x[n] = \cos(o-3\pi n) + \cos(o-5\pi n)$
	W1=0.3/ W2=0-5/t
	$\frac{N_1 = 2\pi}{k_1 = 0.3\pi} \frac{N_2 = 2\pi}{k_2 = 0.5\pi}$
	$N_1 = 20$ $N_2 = 4$
7/	
W. L.	o Period = L(M(20,4) = 26
	XED is periodic with period 20
11 K 12 1 11	Though the top of 50
1	
	C C C C C C C C C C C C C C C C C C C





>([n]=(005)nu[n]+8[n]+2nu[-n-1]  $xEn] = (0.5)^n U [-n] + 8[-n] + 2^n U [n-1]$ XIN] \* XIN] \* and XIN] \ -XIN] our In its neither even nor od. x[n]=(05(0371n)U[n]  $\mathcal{L}[-n] = \cos(-6.3\pi n) \cup En$ x[-n]=(05(0.372n)UEn x[n] = x[n]: O([n] us even X[n] = 20[n-3] -3 S[n+2] 38[n+2 2UIn-3 2 3 4 5 6 2





	7 7 7 7 112			
(e) YED] - (OS(0-3510) UE	D)			
With the Control of t				
=> 2x - N				
0-37 K				
N=20				
	7-1			
- X[0] = (0S(0-3710)UC)	65			
	1.700			
- 1 7 7 7 1 - 1 20 6 6 7 7 1 7 = -				
11 1/3/06/07/10-6				
X547 - (25(1,27)=:	6.8.4			
$\frac{X[4] - (0S(6.971) - 0.8^{4})}{X[5] - (0S(1.271) - 0.8^{4})}$				
	9			
	With the second second			
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
051				
0 1 3 4 5				
	- 3121 - 101 - Lath			
0.7				
$-\frac{9}{1}$ $\times [n] =  +n/3  -3 \leq r$	><			
2 h	13			
0 + 1	ezuise			
26.5.2				
2(1-3) = (-3)/3 = 0	7777			
$-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{2}{3}$ $-\frac{1}{2}$	207			
-127-17-11-113-27-11	1131-1			
2/10/ = 6 1 2/3	$\chi(4)$ = 0			
1-0/3=1				
- 17[1] = 1+1/3 = 4/2				
	· ·			
	Canned with OKEN Scan			

