	Digital Signal Analysis
	Assignment - 03
	V
	FPT 8
1.	Compute the circular convolution of x(n)= {1,1,1,1}
	and $h(n) = \{1, 0, 1, 0\}$ using decimation in frequency FFT algorithm.
9.	Find X[K] for the given 8-point sequence using decimation
	in time FFT algorithm.
	in time fft algorithm. $x(n) = \{1, 2, -1, 2, 4, 2, -1, 2\}$.
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F**	Z-transform;
3,	Find the ztransform for the following and mention the LOC.
	8) ~ (m) (1)n. (m)
1	$n(n) = \left(\frac{1}{4}\right)^n u(n).$
	$\gamma(n) = [5(2^n) - 4(3^n)]u(n).$
	$\gamma(n) = na^n u(n).$
<u> </u>	(1) $\chi(n) = \{3, 4, 8, 7, 0, 4\}$
	$\sim) \alpha(n) = a^n u(n) + b^n u(-n-2).$
4.	Consider two sequences 24(n) and 26(n).
	4(n) = 28(n) - 8(n-4)
D	$d_{e}(n) = 4\delta(n) + 3\delta(n-1)$

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Ber Milliager Countries (Mercel Schools State of	1) Find the 7-larger dosum of the consolution (x/2)	4
	1) Find the z-transform of the convolution $(x(z) =$	_
	$Z(\chi_1(n) + \chi_2(n))$	-1
	(i) Determine x(n) using z transformation.	
and the second s		
5,	Consider the transfer function $H(z) = z+1$	
	Z- D, 5	
	Determine -	
	9) The impulse response h(n).	
	(h) Step response y(n)	
	"iii) syctem response y(n) if the input is given	
	$\alpha_1 \times (n) = (0.2)^n u(n).$	
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6.	Obtain and sketch the empulse nesponse of shift	
	invariant system given below:	
	y(n)= 0.2x(n) + x(n-1) + 0.3x(n-3) + 0.5x(n-4)	
	July - 0.7 x (11) + x	