QUESTIONS	
0.14(1.1.) DET (1.1.0.0)	
3. What is DFT of x(n)={1,1,0,0} [0,0,1,1]	1 point
[2,1-j,0,1+j]	
[1,1-j,0,1+j] [2,1-j,1,1+j]	
For G(S) F(S) = $(k(S+z))/(S+p)$, $(z < p)$ the plot is a) One pole on the imaginary axis	1 point
b) One zero on the right-hand side of the plane	
c) One pole and one zero on the left-hand side of planed) 2 poles and 2 zeros on the left-hand side of plane	
	selection
Which of the following substitution is done in Bilinear transformations:	? 1 point
a) s = 2T[1+z-11-z1]	·
 b) s = 2T[1+z-11+] c) s = 2/T[1-z-1/1+z-1] 	
d) None of the mentioned	
Clear	selection
If x(n) and X(k) are an N-point DFT pair, then X(k+N)=?	1 point
X(-k)	
X(k)X(N)	
○ X(n)	selection
Compute circular convolution of $x(n)=(0,1,2,3)$ and $h(n)=\{2,1,12\}$	1 point
[7,9,11,3][7,9,11,10]	
[7,9,11,9][7,9,11,6]	
[7,5,11,0]	
Which of the following is the backward design equation for a low pass to-high pass transformation?	- 1 point
O a) ΩS=ΩS/Ωu	
b) S=Ωc ΩHP/SS=Ωc ΩLP/S	
d) ΩS=Ω'S/Ωu	Selec+!
Clear	selection
If X1(k) and X2(k) are the N-point DFTs of X1(n) and x2(n) respectively, then what is the N-point DFT of x(n)=ax1(n)+bx2(n)?	1 point
X1(ak)+X2(bk)	
aX1(k)+bX2(k)eakX1(k)+ebkX2(k)	
None of the mentioned	
Clear	selection
What is the pass band edge frequency of an analog low pass normalize	ed 1 point
filter? O rad/sec	
b) 0.5 rad/sec	
c) 1 rad/sec d) 1.5 rad/sec	
Clear	selection
The computation of X(k) for a complex valued x(n) of N points requires	1 point
a) 2N2 evaluations of trigonometric functions	
b) 4N2 real multiplications	
c) 4N(N-1) real additions d) All of the mentioned	
Which of the following is a low pass-to-band stop transformation? a) $s \rightarrow s(\Omega u - \Omega l)/s2 + \Omega u \Omega l$	1 point
a) $s \rightarrow s(\Omega u - \Omega l)/s2 + \Omega u \Omega l$ b) $s \rightarrow s(\Omega u + \Omega l)/s2 + \Omega u \Omega l$	
Clear	selection
2^3 is called as Radix 2 FFT algorithm *	1 point
TRUE	
○ FALSE	
Compute 4 point dft of sequence x(n)=cos(nΠ/2)	1 point
[0,2,0,2]	
(Interpretation of the content of th	
[0,2,0,4]	
Compute 4 point dft of sequence h(n)=2^n	1 point
[15,-3+6j,-4,-3-6j]	
[15,-3+6j,-6,-3-6j] [15,-3+6j,-5,-3-6j]	
[15,-3+6j,-3,-3-6j]	
Which of the following methods are used to convert analog filter into	1 point
digital filter?	
a) Approximation of Derivativesb) Bilinear transformation	
c) Impulse invariance d) All of the mentioned	
(a) All of the mentioned	selection
d) All of the mentioned Clear s	
(a) All of the mentioned	selection 1 point
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] 	
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] 	
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] [2,1-j,1,1+j] 	1 point
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] 	
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] [2,1-j,1,1+j] Physically realizable and stable IIR filters cannot have linear phase. Non Linear phase. 	1 point
 (a) All of the mentioned (b) All of the mentioned (c) 3. What is DFT of x(n)={1,1,0,0} (e) 0,0,1,1 (e) (2,1-j,0,1+j) (e) (1,1-j,0,1+j) (e) (2,1-j,1,1+j) (e) Physically realizable and stable IIR filters cannot have (e) linear phase. 	1 point
 (a) All of the mentioned (b) All of the mentioned (c) 3. What is DFT of x(n)={1,1,0,0} (e) 0,0,1,1 (e) 2,1-j,0,1+j (e) 2,1-j,0,1+j (e) 2,1-j,1,1+j (e) 2,1-j,1,1+j (e) 2,1-j,1,1+j (e) Physically realizable and stable IIR filters cannot have (e) linear phase. (e) Non Linear phase. (e) linear frequency (e) non linear frequency 	1 point
 (a) All of the mentioned (b) All of the mentioned (c) 3. What is DFT of x(n)={1,1,0,0} (e) 0,0,1,1 (e) 2,1-j,0,1+j (e) 2,1-j,0,1+j (e) 2,1-j,1,1+j (e) 2,1-j,1,1+j (e) 2,1-j,1,1+j (e) Physically realizable and stable IIR filters cannot have (e) linear phase. (e) Non Linear phase. (e) linear frequency (e) non linear frequency 	1 point
 d) All of the mentioned 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] [2,1-j,1,1+j] Physically realizable and stable IIR filters cannot have linear phase. Non Linear phase. linear frequency non linear frequency Clear s	1 point 1 point
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] [2,1-j,1,1+j] Physically realizable and stable IIR filters cannot have linear phase. Non Linear phase. linear frequency non linear frequency Clear s Which of the following is a representation of system function? a) Normal system function b) Laplace transform 	1 point 1 point
 d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] [2,1-j,1,1+j] Physically realizable and stable IIR filters cannot have linear phase. Non Linear phase. linear frequency non linear frequency non linear frequency a) Normal system function b) Laplace transform c) Rational system function d) All of the mentioned 	1 point 1 point 1 point
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d) All of the mentioned Clear s 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1+j,0,1+j] [1,1-j,0,1+j] Physically realizable and stable IIR filters cannot have Ilinear phase. Non Linear phase. Innear frequency non linear frequency on linear frequency Clear s Which of the following is a representation of system function? a) Normal system function b) Laplace transform c) Rational system function d) All of the mentioned Clear s	1 point 1 point 1 point
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d) All of the mentioned Clear : 3. What is DFT of x(n)={1,1,0,0} [0,0,1,1] [2,1-j,0,1+j] [1,1-j,0,1+j] Physically realizable and stable IIR filters cannot have Interpretable interp	1 point 1 point 1 point
d) All of the mentioned Clear : 3. What is DFT of x(n)=[1,1,0,0) [0,0,1,1] [2,1+j,0,1+j] [1,1+j,0,1+j] Physically realizable and stable IIR filters cannot have [Inear phase.] Non Linear phase.] Inear frequency non linear frequency on Inear frequency Clear : Which of the following is a representation of system function? a) Normal system function b) Laplace transform c) Rational system function d) All of the mentioned Clear : Q. The frequency warping is referred as1) lower frequencies in analog domain expanded in digital domain cannot be domain expanded in digital domain expanded in analog domain3) non linear mapping 4) compression of higher frequencies 1,3 and 4 are correct 2 and 3 are correct All the four are correct	1 point 1 point 1 point 1 point ain
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a) Approximation of Derivatives

O b) Bilinear transformation

O c) Impulse invariance

(a) All of the mentioned

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Clear selection