Digital Signal Analysis

QUIZ-1 Answer All Questions

Marks:20

 State whether the below system is time invariance or linear or causal with explanation. [6 M]

y(n)=x(n-1)+x(n+1)+y(n+1)+2

- 2. Calculate linear convolution of x(n)={1,2,3,2} and h(n)= {2,3,2} using circular convolution. [3 M]
- 3. Calculate Nyquist sampling rate for signal $x(t)=con(200\pi t).cos(400\pi t)$. [2 M]
- 4. Calculate DFT using Decimation in Time FFt for $x(n)=\{1,2,3,1,2,3,4,1\}$ [6 M]
- 5. Calculate DTFT for $x(n) = (1/3)^n u(n+3)$. [3 M]