lec 1 quiz 1

Quantization error is observed in Digital signals.

true

All analog signals are causal signals

false

Process flow for obtaining discrete signals involves:

encoding

Sampling frequency must be

 At least twice the maximum frequency

A set of discrete time signals is subset of set of digital signals ?

false

quiz 2

Match classes of signal with their examples

Periodic – Sinusoidal signals, Energy  – Finite duration pulse signals, Non-linear – Logarithmic signals, Deterministic – Quadratic curves

All discrete time sinusoidal signals are periodic in nature.

false

Naturally occurring signals are real.

true

If x[n] = [1, 2, 3, 4, 1] then even and odd parts of x[n] are (   denoted zero index position)

xe[n] = [1, 3, 3, 3, 1]  and xo[n] = [0, -1, 0, 1, 0]

Discrete time signals are continuous in time and discrete in amplitude.

false

dsp quiz 4

Linear convolution can be derived using circular convolution.

False

Outputs of linear and circular convolution for equal length signals are identical.

true

Linear convolution of x[n] = [1 , 2, 3, 4, 5] and y[n] = [1, 0, -1, 3] (   denotes zero index position)

[1, 2, 2, 5, 8, 5, 7, 15]

Circular convolution of x[n] = [1, 2, 3, 4, 5] and y[n] = [1, 0, 1, 3] is (  denotes zero index position)

[14, 19, 19, 9, 14]

If x[n] = [1, 2, 4, 9, 14] and y[n] = [1,  0, -1, 3] then length of linear convolution output is Answer

8

Correct

 and length of linear convolution output is Answer

5

Correct

. (Enter only Numeric values)

lecture 23 quiz

All causal systems are time invarient system.

false

lec 34

All IIR filters have only poles

true

lec 37

FIR filters are having finite poles and zeros.

true