

C.W.

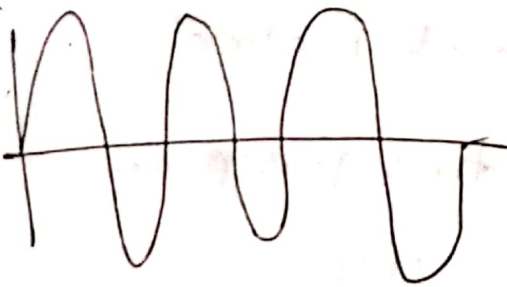
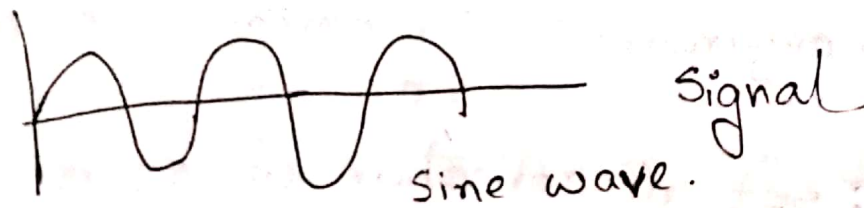
Shamim Reza Sir Bangabandhu

07-06-22

Computer Network

Present

13-Jency
24-Janat
3.42-Pruma
4.10-Natasha
5.34-Nishi
6.24-Fahim
7. Niloy



Signal

Sine wave.

carrier signal.

Mixed/
combined
Modulation

Inosphere

Attenuation → the reduction of power of a signal

3 ways of Modulation: the process of

AM: Amplitude; maximum distance from equilibrium

FM: Frequency; no. of complete wave in 1 second

PM: Phase

Demodulator.

Demodulation: the process of deriving the main signal from ~~data~~

Data Compression: cost effective.

slow judge

UVA 100+

day 1

3

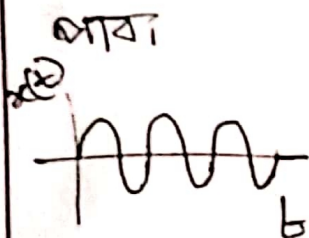
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Digital Signal Processing \rightarrow 1

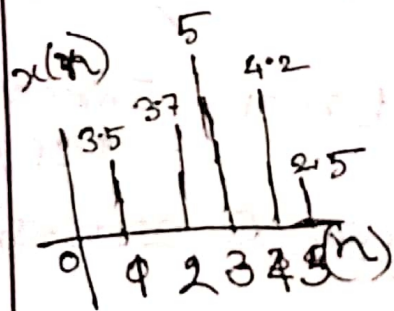
Signal: Physical quantity .

Sampling: Process in which a continuous time signal (continuous with respect to time) is

C.T \rightarrow exists for all instance of time
প্রত্যেকটা time এর জন্য amplitude/value



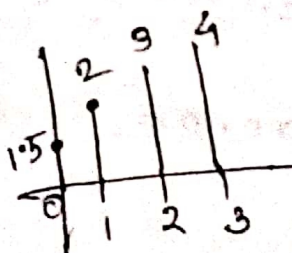
D.T \rightarrow exists only for a certain/specific instance of time.



Nyquist theorem.

Continuous ~~time~~ valued signal:

can take any value



Discrete Valued Signal.:

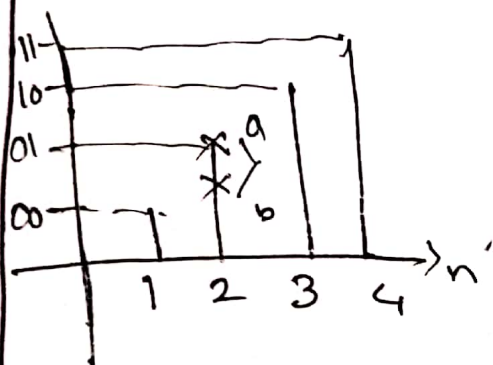


can take ~~only~~ only
limited set of value

Quantized Value

2 bit Quantization
 $2^2 \Rightarrow 4$ combination.

quantization error.



For 2nd Second the value we were supposed to get is at point a, but we got at b. This is caused by noise. This is called quantization error.

1.